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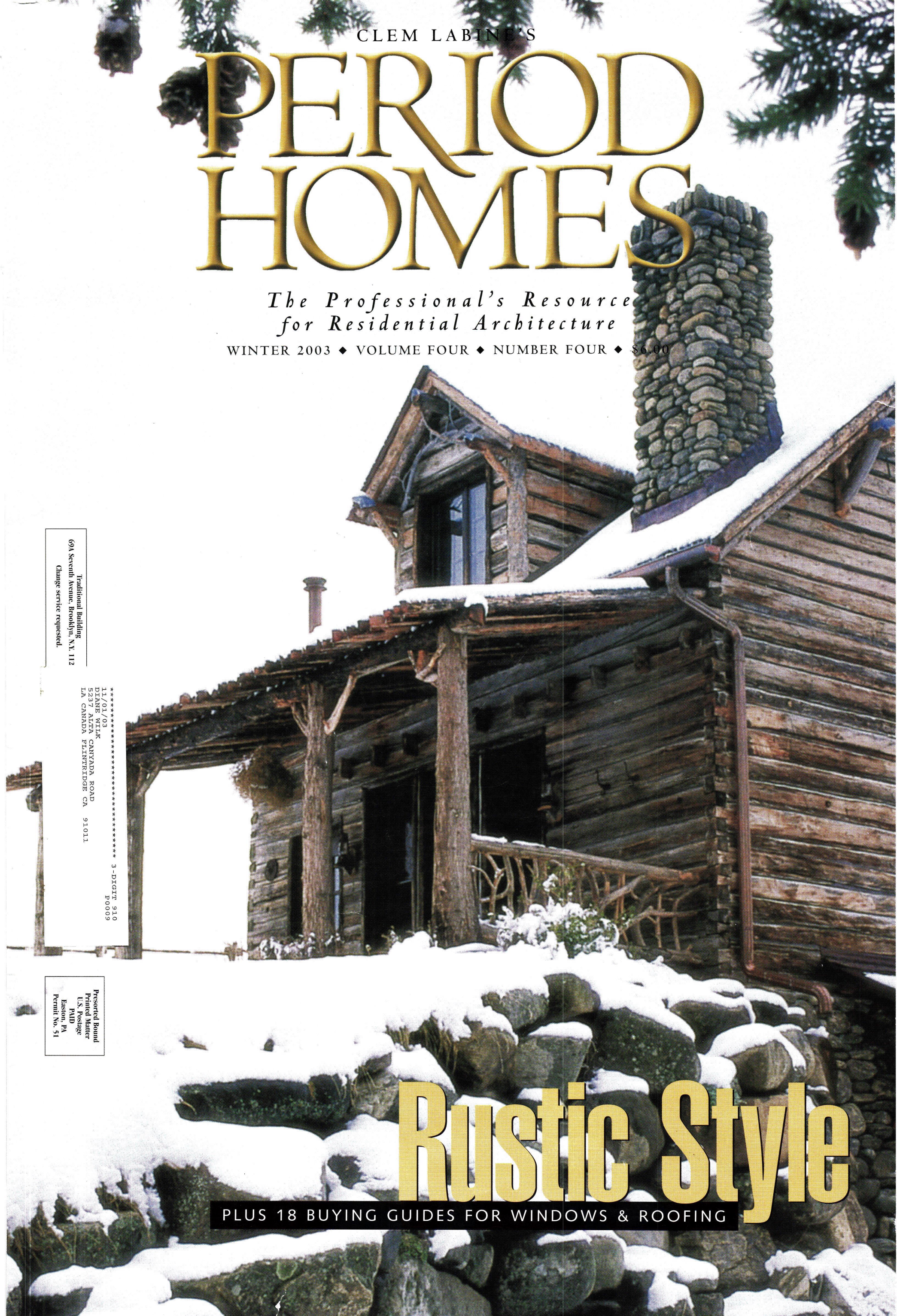

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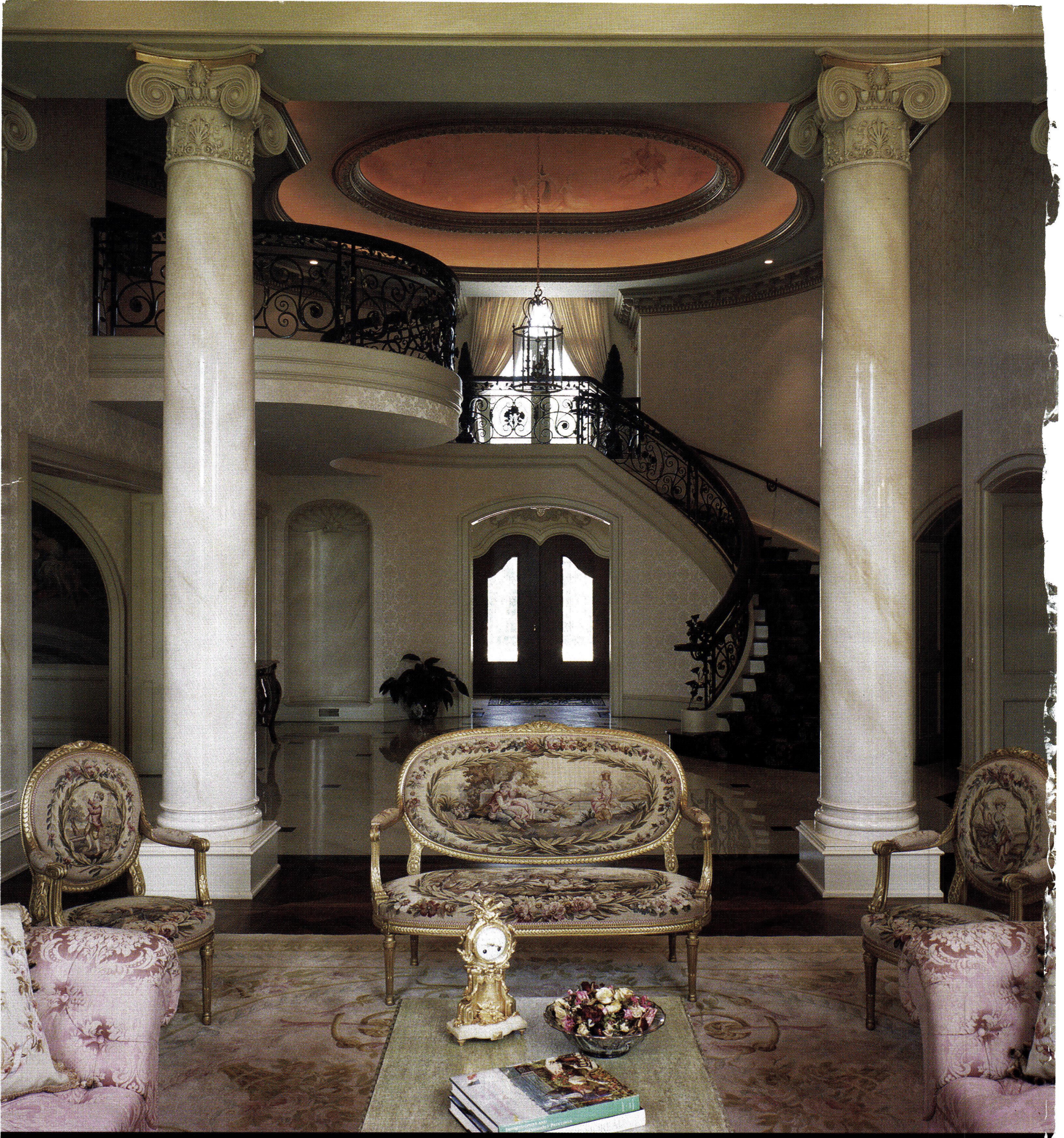

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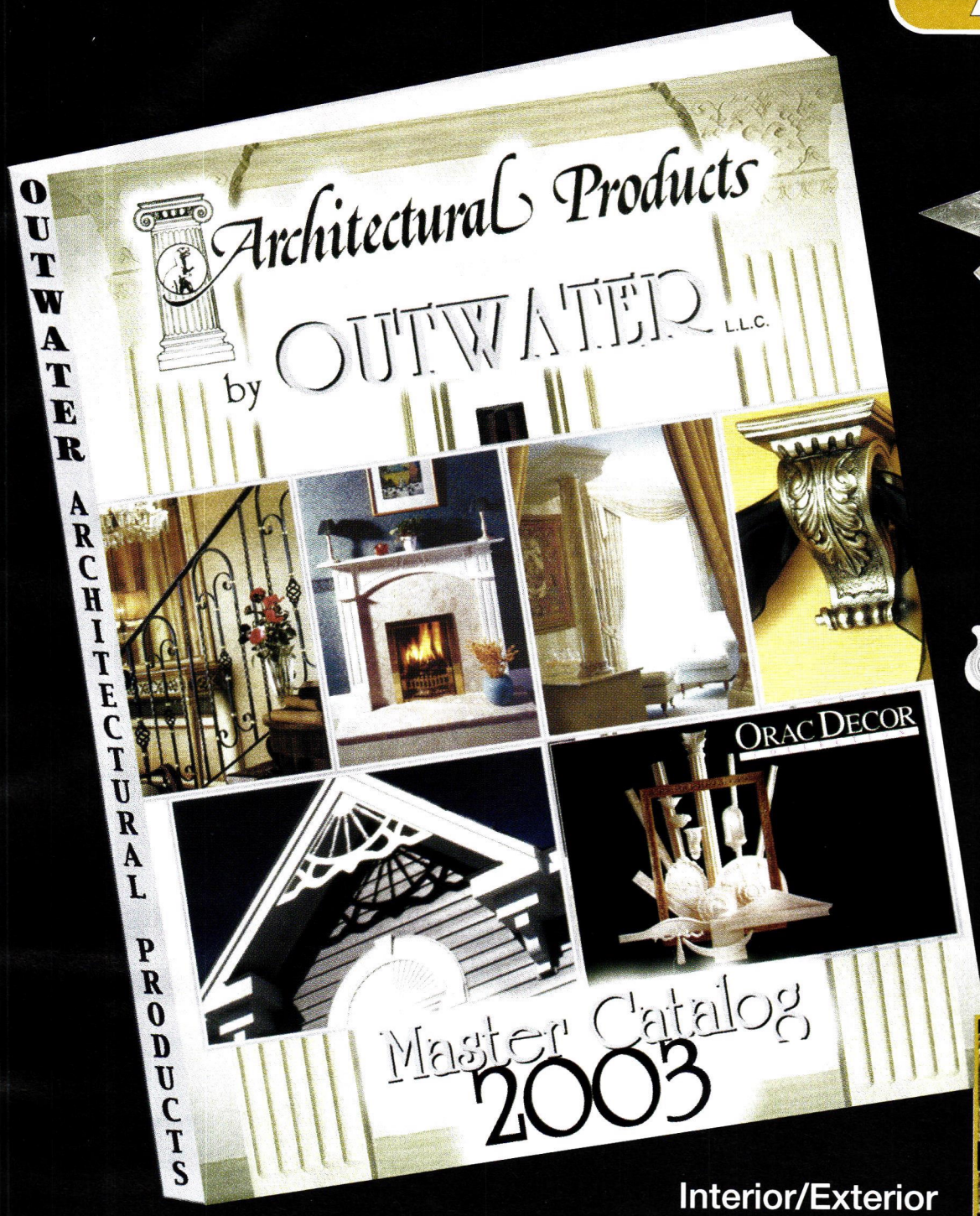

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WRITE IN NO. 5008

Cultivating Diversity

From remote Adirondack lakes to downtown Syracuse blocks, a central New York architectural firm thrives on contextually respectful variety.

by Eve M. Kahn

Their very offices are as varied as their portfolio: architectural firm Holmes King Kallquist & Associates (HKK) has so far carved out four levels in a once-derelict commercial building, in a sector of Syracuse renowned for adaptive reuses of its Victorian white elephants. Parts of HKK's headquarters have served in its 140-year history as a doctor's office, a cooper's shop, a carriage house and a pool hall, as well as a covert subterranean entrance to a nearby speakeasy. Now, in HKK's four levels, no room's footprint, configuration or décor repeats.

There are sunny, refined corners with reeded window trim, Neoclassical or Art Nouveau wallpaper friezes and piles of carved-stone obelisks and vintage architectural monographs. Other spaces are soaring, post-industrial, with exposed brick walls and ceilings gridded in wooden trusses. There are also a few windowless nooks, cozily lined in rainbows of materials samples and paint chips. "We've had new employees getting lost around here," laughs Bruce King, one of the three jovial, loquacious and impassioned partners, as he gives a tour through the charmingly rambling complex.

Of central New York's half-dozen major architectural firms, none can compete with HKK's sheer quantity of types of projects. "We don't have one niche – we're in about 12 niches at once, so we're always on the shortlist for the next project in the area," King explains. The 25-person firm has designed corporate and civic campuses from scratch and has restored commercial and institutional buildings ranging from Victorian behemoth mills to a 1960s domed stadium at Syracuse University (it needed the fifth roof of its short life span, since the pre-HKK roof coverings were ill-engineered to withstand the region's climatic extremes). The firm's residential work, whether $65,000 cottages or $18-million estates, has drawn on Tudor, Norman, Colonial, Shingle and Adirondack styles. What ties the designs together is an ebullient mixture of symmetry and asymmetry: exteriors detailed with dormers, bays and columns, in pairs, trios or quartets, and interiors richly equipped with either ornate or demure coffers, pilasters, corbels and starbursts of revealed timbers.

All three partners, who have collaborated for nearly three decades, say the ever-changing stylistic roster is both good for business and well-suited to their own temperaments. "I love variation, playing with and mixing different materials and imagery and seeing what happens," Leif Kallquist explains. "Because the projects that come in are always so different," adds Carlton Holmes, "it's always a lot of fun to come to work."

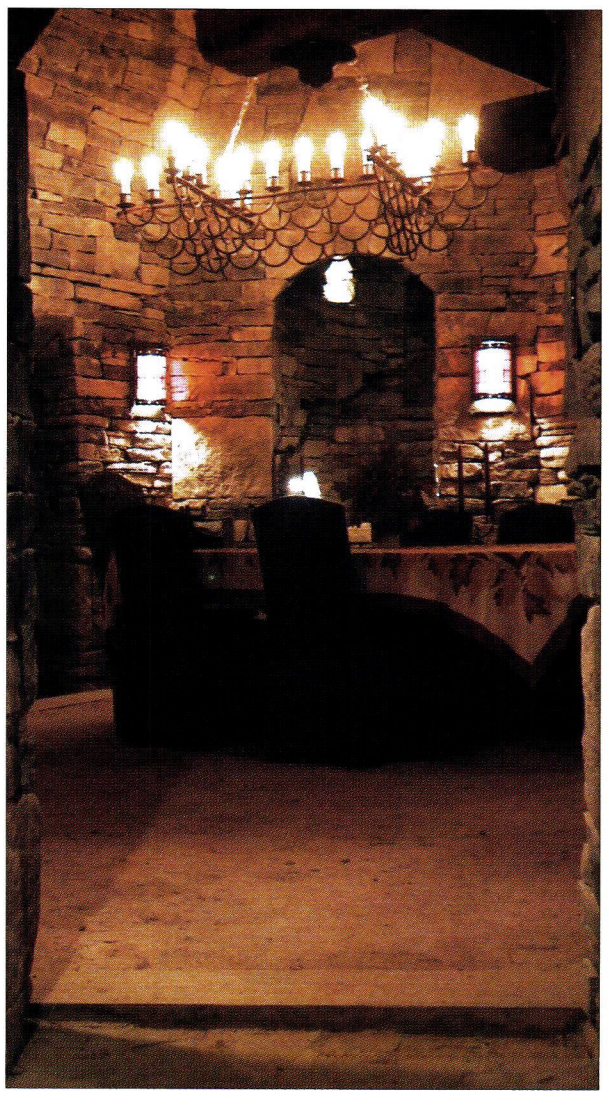
HKK's partners, from left: Carlton Holmes, Leif Kallquist and Bruce King. Photo: Terrie King

King usually handles office management (with his wife Terrie, head of HKK's interior design division). Holmes concentrates on construction and other field work (he also runs a company from HKK's offices called C.M. Ltd., short for Construction Management), while Kallquist likes dealing with strong-willed residential clients seeking 24/7 attention. HKK has four main work genres: preservation, residential,

An unmistakable HKK entry on a Cazenovia, NY, house is flanked by paired piers on hefty fieldstone bases, below a starburst of exposed beams. Photo: Tim O'Shea

The Cazenovia house's Great Room flows into a screened lakefront porch through French doors. Photo: Tim O'Shea

build-to-suit commercial (mainly offices, as well as stores and restaurants) and civic/institutional. Although HKK's earnings generally tend to be divided equally among these areas, "The percentages can vary from year to year," King says. "Last year, for instance, was a barn year – we were either converting them or building them new to look like they'd been converted. Every year there's been a theme; we've never quite been able to explain the ebb and flow. Some of us most enjoy working with the homeowners, others are good with bureaucracies and politics or would rather solve the toughest technical problems. Then sometimes we'll need everybody focused on one project for a last-minute blitz. We always mix up the teams. We operate so horizontally that everybody has to be able to do everything. It rounds our staff out and keeps them interested. Many of them have been with us since the beginning."



Good Neighbors

Holmes and King formed a partnership in the neighborhood shortly after they graduated from Syracuse University in the early 1970s. (King describes the school's philosophy in his years as "mixed-up modern, in transition to something more open and egalitarian, but no one knew quite what yet.") Kallquist joined them not long after his own Syracuse graduation, in 1983. Near their office, a canal, now paved over, once connected to the Erie Canal. Along its length, factories had pumped out typewriters, clothing, washing machines and beer. HKK was hired soon after it opened to transform several dead mills into housing/retail/office developments.

While restoring dramatic original details – 5x10-ft. sash on a typewriter factory, flowery cutout gingerbread over every window on a shoe mill – the architects added exuberant yet context-respecting features. Reeded cast-iron pilasters flank new storefronts and, on a brick entry pavilion, a hefty limestone keystone and flared-out impost blocks mark an arched doorway's trajectory.

The HKK office is perched on a rise overlooking many of the reborn mills. (One afternoon a few years ago, King recalls, he was absentmindedly gazing across the horizon when a water geyser shot up. He hurried down to the site, realizing a caisson being drilled at a project site had hit an artesian well.) Anything in view that hasn't yet been renovated, King says, "we've at least helped mothball it or done a condition study for it, if not whole conceptual drawings for how it could be reused."

HKK staffers, en route to their office, pass blocks of HKK projects, both current and past. The street the office is on, lined in Victorian and 1920s store blocks, is an HKK work in progress. The firm has just widened the sidewalks with cobblestone and concrete bands to reduce the street to its original mid-size proportions, and added Victorian-style lampposts.

Telltale Signs

To identify an HKK house, look for asymmetrical massing on L-, U- or V-shaped plans angled to capture views and maximize privacy. Dormers can be hipped, shed or gabled, or sometimes all three. Windows can be square, rectangular or oval, or all three. Entry porticos are always generously proportioned, gabled or arched, and flanked by single or paired Doric columns. Lofty Great Rooms are ribbed in beams, coffers or both. Porch and stair balusters are either cylindrical, squared off or whimsically cut out in silhouettes of turned spindles. A single shape can recur, giving cohesion to even a 27,000-sq.ft house. The same shallow arch, say, will rise over a house's bay windows and fireplace surrounds, and define the forms of its barrel vaults, wall paneling and kitchen stove hood.

HKK builds hundreds of projects a year, mostly in central New York. King defines their territory as "west to Alfred, Rochester and Albion, as far north and east as Malone, anywhere in the North Country and not much further south than Cortland." Entire clusters of HKK works have arisen, especially on lakes just south of Syracuse and around the Adirondacks' remote Big Moose Lake. (Holmes' family has owned a camp there for a century – his parents were married at a 1930s stone chapel on the lakefront, its arched ceiling held up by naturally curved rather than milled timbers.) In and around Skaneateles, for instance, the firm has built lakefront, timbered cottages. For one entrepreneurial innkeeper, HKK restored a Victorian hotel and a Colonial Revival bed and breakfast and is now building an Italianate-inspired hotel block from scratch. Around

Far left: This recently completed HKK lodge, near Lake Ontario, is an expanded version of an HKK lodge at the site that burned down in 1998. Photo: HKK

Left: A dining room fixture in the Lake Ontario Lodge was fashioned from vintage horseshoes found on the property and hung from a chain that once held an anchor on a Great Lakes steamer. Photo: HKK

Branching Out: A Regional Style Becomes a National Phenomenon

In Alabama, a search for the perfect style ends with a northeastern solution.

That Adirondack-style house may be surrounded with pine trees, but this picture wasn't taken in upstate New York. Great Camp Pine Point is located in Guntersville, AL: the dream home of Anne and Buster Pollard, and one of the great success stories of Michael Bird's architectural firm Adirondack Design. *All photos: John Griesen*

Project: Private residence, Guntersville, AL
Architect: Adirondack Design, Saranac Lake, NY, Michael Bird, Principal

For more than 100 years, the rustic design of the camps of the Adirondacks has come to represent a unique approach to architecture in the Northeast. Recently, however, these indigenous structures have begun to appear well outside their traditional locale. "The 'Great Camp Style' is one that harmonizes with the wilderness better than any other style," says architect Michael Bird, founder and principal of the firm Adirondack Design. "It's a style that can be easily adapted to any area," he argues, because "it uses standard stick-frame construction. There may be large roof overhangs or complicated roof systems that are somewhat unusual, but we're able to do all the construction work with local help."

Bird came to his devotion to the Adirondack style through personal experience: For more than 70 years, his family owned a camp on Upper St. Regis Lake in the Adirondacks, where he spent every summer. "I've just always loved the area," he admits. "I studied architecture at the University of Southern California, but every year I'd always be sure to come back to the Adirondacks." In 1982 he settled permanently on the St. Regis Lakes, and soon thereafter launched his architectural firm devoted to this style. "I started Adirondack Design in 1986, and it was only three or four years at the most before jobs started coming in from other areas in the United States."

Although Bird has noted the Adirondack style influencing recent construction as far away as Colorado, Utah and Montana, his firm has worked almost exclusively in the Northeast and the Southeast. "The northeast corner of Georgia, where Georgia, South Carolina and North Carolina meet, is a mountainous region that has its own history of Adirondack structures built into that area, and we've done a lot of work there," he says. "The water is mostly dammed rivers, but there are plenty of log cabins, and the people there use rustic materials for houses, mostly in construction dating from around the 1920s." Concerns about Southern heat and humidity being especially inimical to Adirondack-style houses are somewhat overstated, to Bird's way of thinking. "Exposed railings don't last forever, whatever you do. Wood over time does rot; that's just the nature of the beast. And pressure-treated lumber simply doesn't look as good."

Anyone who owns a house built in the Adirondack style must expect a certain amount of maintenance, repair and replacement of exterior elements. The wholesale restoration of older camp buildings, however, has proven to be a minor aspect of Adirondack Design's business. "Although we've done some restoration work, generally a lot of the properties that were purchased were too small and worn for the needs of the family," Bird explains. "We've had to tear down the original structure and rebuild it to meet the necessities of contemporary life."

When asked how he'd compare his approach to designing in this style with the original construction of the Great Camps, Bird said with a laugh, "I wasn't around 100 years ago! But generally, we've gone well beyond the house design in those days. We have a much better understanding of the needed construction techniques and the various ways to insure the longevity of the houses. Many of the original Adirondack designs were intended to be only temporary or seasonal housing, after all. Some were accessible only by boat, which isn't feasible for permanent housing today. Certain basic design elements never occurred in the original buildings. For instance, in the camp my family owned, there was no foundation per se: It was built on piers that just sat on the ground, with no cement or anything else. Today, when we design in the Adirondack style, we work with full foundations and build according to the energy codes."

Among Adirondack Design's buildings that reside outside the Northeast, one of the most impressive achievements is the 4,500-sq.ft. Great Camp Pine Point in Guntersville, AL, completed in 2000 and built for Anne and Buster Pollard. Ms. Pollard explains how she and her late husband came to

commission such an unexpected house style for their Alabama property: "We were familiar with the Adirondacks, because we used to own several antique Chris-Craft boats – the original kind, made of mahogany, which they discontinued in the 1950s. We kept them there, and that's what got us up to the Adirondacks and kept bringing us back. We just fell in love with the style."

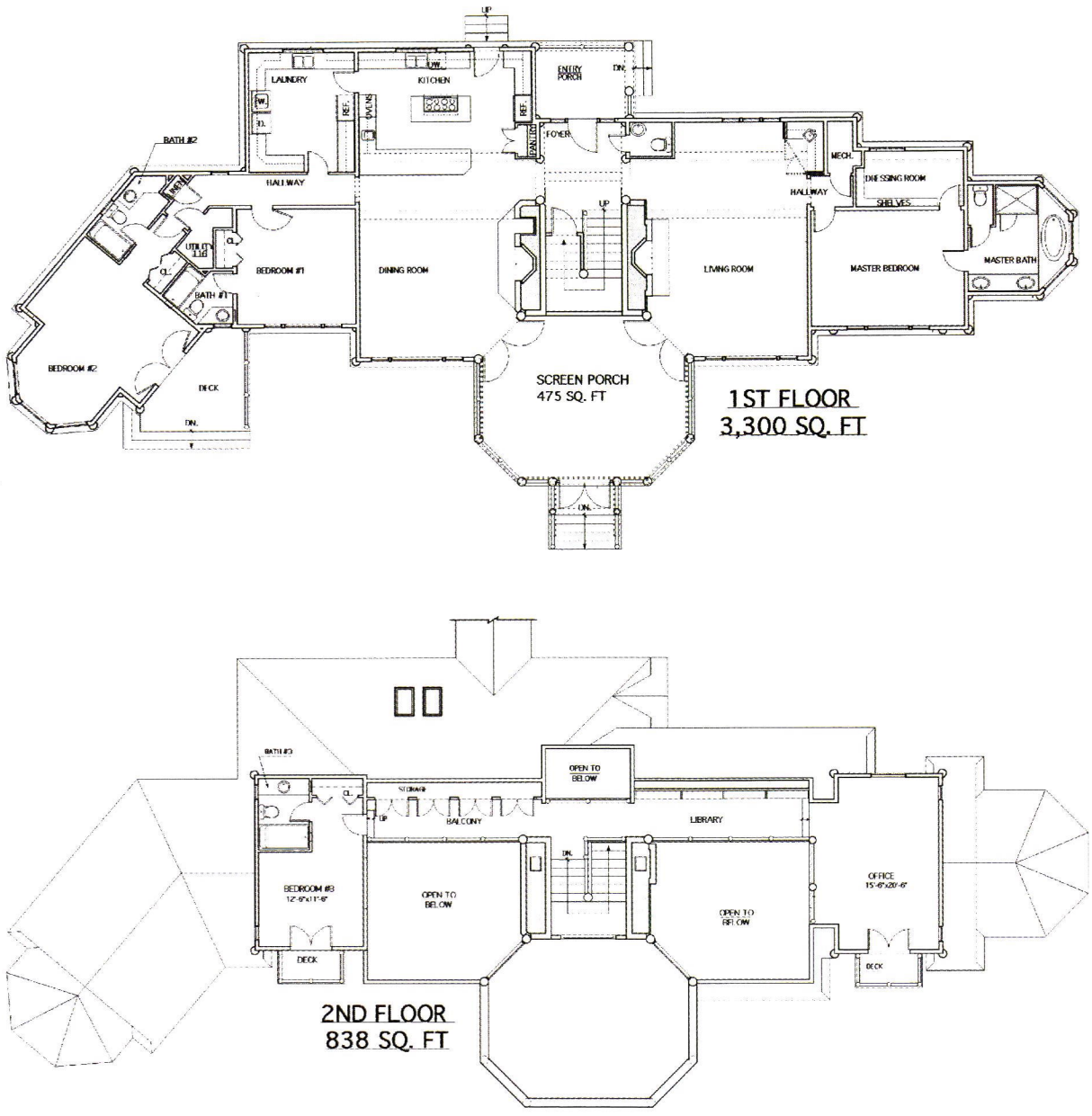
Finding an architect who could rise to the Adirondack occasion, however, proved difficult for the Pollards. "We tried having a house built in this style by a local architect, and even though he understood what it was about, he simply wasn't going in the direction that we wanted," she relates. "Not long after, we saw an article on Michael Bird in *Adirondack Life*, and so we contacted him. He showed us houses he'd built in this style in the Adirondacks, as well as his family's camp there, and we knew that he was the architect for us."

By the same token, Bird came to discover that the Pollards' personal stretch of Guntersville was just right for an Adirondack-style house, being "more or less pine forest from the yard to the lake," he recalls. As Pollard points out, "We are the only people in Alabama with a home in this style, but if you could see our lake and vegetation, you'd know how similar this area is to the Adirondacks. When Michael Bird came here to examine the property, he said, 'I can't believe how much like the Adirondacks it is!'"

As they were so in love with the Adirondacks and so familiar with the house style, the homeowners wound up playing an active role in the construction of their dream residence. "We did a lot of research and a lot of searching in order to have the house built they way we wanted it," says Pollard. "Three tractor-trailer loads of white cedar logs from the Adirondacks had to be brought in. There's also cut sandstone from Tennessee and, in the foundation, Alabama river rock. The shingle siding is made with poplar bark from North Carolina – a new material for Bird, with which he was glad to work." (In fact, these poplar-bark shingles, native to the South, won Bird's heart and were used for his own house in Lake Placid, NY. "It's a great look," he says.)

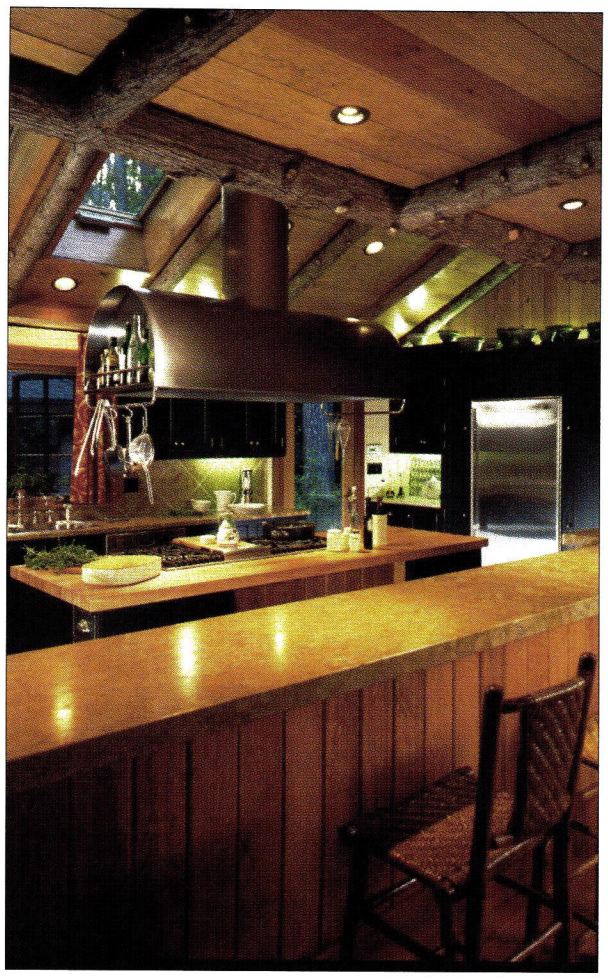
This combination of materials from various regions is typical of the work Adirondack Design does nationally. "We like to pick stone locally," Bird notes, both for appearance and because "it's much less expensive than shipping stone from the Northeast." Birch bark will sometimes be imported to the South, according to Bird, "if the client requests it." If there's one Northeastern material that is truly mandatory, though, it is eastern white cedar logs, "for look and for ease of use. It's a little bit more forgiving than, say, spruce. When you cut it with a chain saw, the bark is flexible and tends to leave strips, and you can use this excess bark to cover the joints. In the end, it makes for a better appearance to the house. Another plus is that it's a more light-weight material once it's dried and doesn't add so much to the weight of the structure."

Bird and the Pollards weren't alone in their enthusiasm for bark on the exterior of Great Camp Pine Point: The squirrels were equally delighted and took to stripping away bark from the gazebo railings to use



The floor plans for Great Camp Pine Point suggest that the Pollards' home could probably serve as an efficient resort, if need be: multiple bedrooms and baths, spacious living and dining rooms (which open up to the second floor), a large and well laid out kitchen and an expansive screened-in porch. Drawing: *Adirondack Design*

For authenticity's sake, the construction of Great Camp Pine Point required three tractor-trailer loads of white cedar logs to be shipped to Alabama from the Adirondacks. The shingle siding is poplar bark obtained from a North Carolina woodsman, and the foundation utilizes a local resource, Alabama river rock.



The fenestration and recessed lighting in this well-appointed kitchen may bespeak a contemporary approach to design, but those log rafters are eloquent witnesses to the Adirondack inspiration of the Pollards' home.

in building their nests. Soaping down the railings helped discourage the rodents (as did Buster Pollard's air gun!), and the Pollards' residence has remained more or less unmolested since.

"It was a labor of love," is how Anne Pollard describes the construction of Great Camp Pine Point – which is also a perfect summation of the commitment to the Adirondack style that Bird pursues with his firm. – *Nicole V. Gagné*

The rustic furniture, tree-limb balcony railing, log rafters and natural-stone fireplace are all quintessential design elements of the Adirondack style. The Pollards' addition of mounted animal heads only furthers the impression that their living room could double as a hunting lodge.

The warm wood tones of the Pollards' dining room are complemented by the presence of natural wood in the furniture, railings and rafters. Together, they transform the oversized dimensions of an Adirondack-style interior into a friendly and personalized part of their home.

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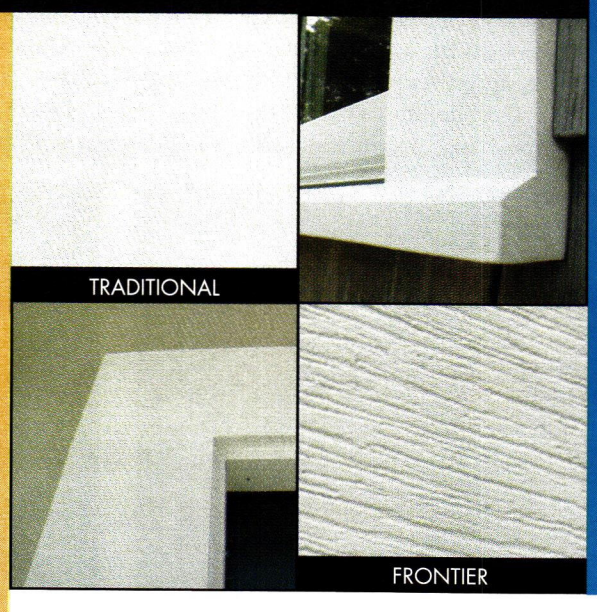

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Roughing It in Style

Combining English Bungalow and French manor styles, Macrae-Gibson Architects created a house that is off-grid, yet very livable.

Project: Lake Retreat, Barkmere, Quebec, Canada
Architect: Macrae-Gibson Architects, PC, New York, NY, Gavin Macrae-Gibson, President
General Contractor: Yves Rondeau Construction, Val David, Quebec

An hour and a half north of Montreal, a house sits nestled in the wilderness, separated from the rest of the world by Bark Lake. Accessible in summer only by boat, the retreat is off-grid, powered by solar energy and propane. Built in 2001 in Barkmere, Quebec, by New York-based Macrae-Gibson Architects, PC, the residence integrates bungalow and manor styles with the principles of green building to achieve a rustic, yet sophisticated, experience.

"There was an original house on the site, but it was beyond restoration, so we had to tear it down. What remained was a low-lying area where we put a bunkhouse," explains Gavin Macrae-Gibson, President of Macrae-Gibson Architects. "We placed the new house where there is a rise in the land, for the view." The dovetailed-log construction of the 5,000-sq.ft., three-story house borrows from the "open lightness" of the English wood-framed bungalow style, typical of the region, as well as the "monumental materiality" of the historic Quebec manor, he says. The house was designed to be as open as possible to nature, surrounded on three sides by extensive screen porches, while large expanses of glass provide panoramic vistas of the lake. The interior is embellished with maple and ash trees taken from the site and integrated into the stairs, cabinetwork and fireplace.

With the lake in front of the house, and woods and mountains extending for many miles behind it, there is no road access to the retreat in the summer (in the winter, the lake freezes over and is strong enough to support a car). "One arrives by boat, walks through a fern forest by means of a boardwalk up to the bunkhouse, makes a left turn at the bunkhouse deck and comes to a 60-ft.-long wood suspension bridge," Macrae-Gibson says. The main house is situated on a rise about 20 ft. above the bunkhouse deck. "Our choices were steps or a bridge," he explains. "Steps tend to emphasize that the house is sitting heavily on the ground. A bridge, on the other hand, gives the house an appearance of floating. Man-made fiber was required for the rope that was used on the bridge, since natural rope would have eventually rotted. The architects used navy blue rope that was threaded through the boards of the bridge and wrapped around the cable that holds it up, rendering the cable invisible. This technique was also used to form the railing of the bunkhouse deck.

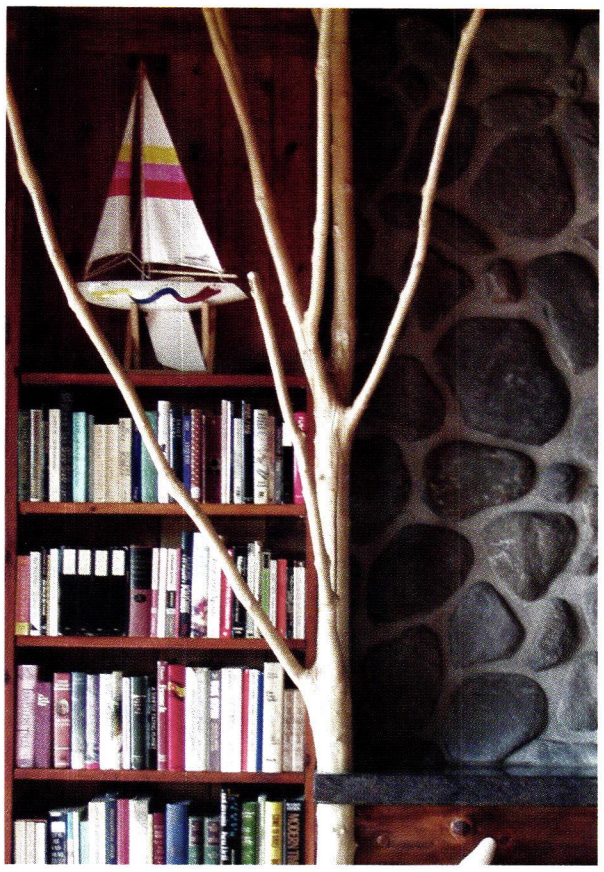
From the shore, this 5,000-sq.ft. lake retreat in Quebec barely shows through the trees. All photos: Gavin Macrae-Gibson

Above: The bunkhouse is a miniature version of the house and is used as a changing room or lunchroom.

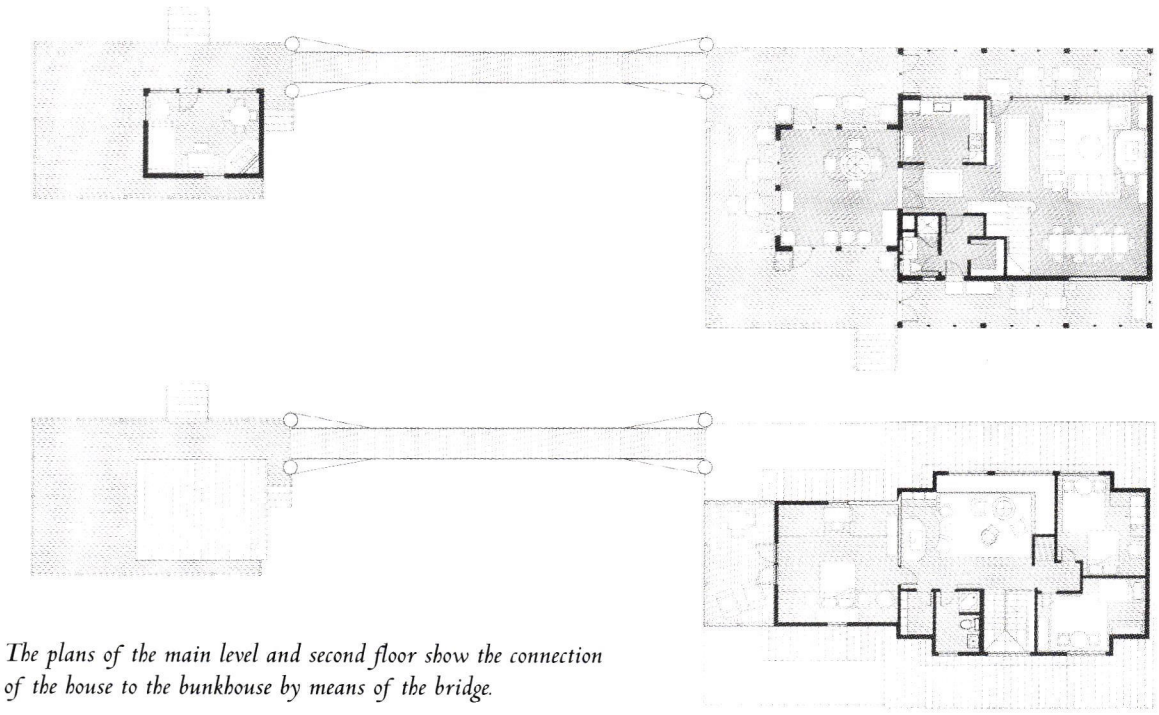
Left: The house is approached by means of a 60-ft.-long suspension bridge, with bronze and stainless-steel turnbuckles joining the bridge ropes and cables.

The bunkhouse, right by the water, is "like a cabana," according to Macrae-Gibson. "It can be used for changing into swimsuits or for leisurely summer lunches. It has bunks for children and a fireplace." The bunkhouse features the same materials as the house – it is a "miniature version of the larger house. For instance, we included some of the same principles of symmetry and asymmetry that were used in the main house," he explains.

The house is surrounded by screened porches, "which extend the wood-frame building technique that stems from the summer Bungalow tradition on the lake," says Macrae-Gibson. This opens up the house and connects it with nature. "An important part of the design was the screened porches. Mostly used in summer, the porch doubles the size of the useable area of the house's ground floor. One porch is parallel with the lake, another with the back of the house, letting in sunlight in the



A fireplace mantel, alongside a bookcase, features an ornamental tree of varnished, stripped maple.



The plans of the main level and second floor show the connection of the house to the bunkhouse by means of the bridge.

morning, since it faces east. The main porch works as a screened-in dining room and is surrounded by an open deck on three sides," he explains.

The effect of the screen porches is contrasted with manor-style heavy-timber materials. "The manors were the original seignorial farmhouses of the Quebec countryside that were built of massive stone construction, beginning in the 17th century. These houses were gradually translated into log construction in a vernacular version that became common throughout the province," says Macrae-Gibson. The house's main frame consists of massive 8x12-in. Douglas fir beams. Three-in.-thick dovetailed logs "provide the exterior sheathing and are layed-up on fully insulated 2x6-in. framing, providing a highly insulated exterior," he says. "A bungalow is typically not winterized, but this house was built to be lived in year-round."

Two 12-ft.-tall glass doors forming a 6-ft.-wide opening lead to the main screened porch. "The feeling of these wood-framed doors, like French doors, is monumental," says Macrae-Gibson. "They give scale to the porch and the main room onto which they open. Because of the large opening, it's almost as if there are no doors there, even when they're closed." He continues, "I'm interested in how one can use parts of different building traditions and assemble them to make something new in relation to a specific goal – in this case, the idea of a connection with nature."

One of the major challenges Macrae-Gibson faced in planning the retreat was being off-grid, as well as off-road. "Due to the inaccessibility of the location, some of the components of the main house were precut. Parts such as the dovetailed logs were produced in a factory and barged over." Electrical power from solar panels provides lighting throughout the house and heat is provided by two wood-burning stoves, one in the main room downstairs and one in the sitting room upstairs. "Because it is so heavily insulated, we can heat the entire house in a matter of hours, even in winter," he says. Propane provides energy for cooking and refrigeration. A generator is used for pumping water from the lake and also offers power as needed.

In addition, the spatial organization had to permit light from every orientation for passive solar heat gain. Due to the number of large windows, aesthetically pleasing views of the lake and forest are brought in from all directions, while at the same time light can enter the house at all hours of the day. "The essence of off-grid design is redundancy," says Macrae-Gibson. "Systems must be designed to survive the unexpected."

On entering the house, the kitchen is on the left, the bathroom, storage room and mudroom on the right. The kitchen has a 6-ft.-tall x 5-ft.-wide window that opens out onto the porch and, hinged at the top, is operated by a pulley, another nautical touch.

To the side of the dining area is a large staircase. The balustrades and newel posts are made of maple and ash trees stripped of bark and varnished. "The basic feel of the rooms comes from abstraction, but balancing that is the sculptural form of the trees," Macrae-Gibson says. At the landing, a window looks out on the forest. "This window is one of the most successful, with an alternate view, that of the forest," says Macrae-Gibson. The window opens the living room to the sun in the morning, which strikes diagonally down the stairs and into that room.

Macrae-Gibson paid much attention to the circulation of the house. "You go from the lower sitting room, up the stair to the upper sitting room. It's a continuous sequence of spaces," he explains. The sitting room on the upper level looks out over the lake. The scale is completely different than below, with an 8-ft. ceiling; downstairs the ceiling stands at 12 ft. "The upstairs sitting room is meant to be an evening or winter room, cozy and warm. The low ceiling and fireplace contribute to that feel," he says. Also contributing to that sense of warmth are hand-woven fabrics on the especially long window seats, which are wide enough to sleep on.

To the left of the sitting room is the master bedroom with a terrace. "This is another wonderful view," says Macrae-Gibson. "The room is raised high above the lake. It's an ideal stargazing spot." Other rooms on that level include a bathroom and storeroom. At the north side there are two guestrooms.

A ship's ladder leads to the third floor, which serves as a children's playroom and sleeping loft. Windows look north and south from this room. An attic space exists in the rafters, where a secret door offers children another place to play. More extensive space for storage, as well as mechanical equipment, can be found in the basement.

"This retreat is a combination of abstract elements and historical traditions," says Macrae-Gibson. "There is an abstraction in the quality of the space, with many different scales of opening. These openings, however, are all designed to connect the house to nature, much like in the historical styles that influenced the design." – *Marieke Cassia Gartner*

Above: Under the master bedroom balcony, seating on the arrival deck provides another connection to nature, which guides the style of the house.

Left: Sunlight streams into the living room at all hours of the day, highlighting the wicker furniture and wood architectural elements.

Crossing Continents, Cultures and Centuries

With its move from China to the United States, an historic building brings a deeper understanding of an ancient architectural tradition.

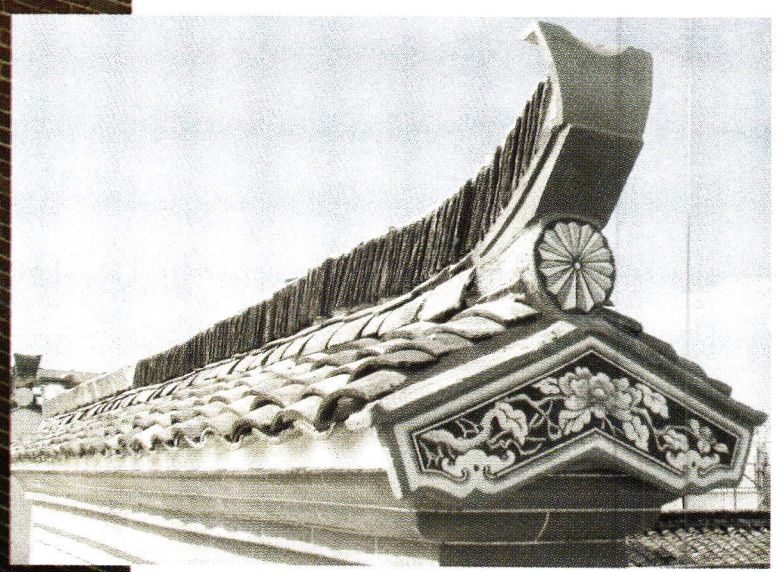
Project: Restoration and re-erection of Yin Yu Tang, Salem, MA
Architect: John G. Waite Architects, Albany, NY, John G. Waite, Principal
Construction Manager: Liberty Street Restoration Company, Albany, NY

Yin Yu Tang is a 200-year-old Chinese house that was dismantled and brought to the United States for re-erection at the Peabody Essex Museum in Salem, MA.

Almost 200 years ago, a merchant named Huang built a 4,500-sq.ft. house, Yin Yu Tang (Hall of Plentiful Shelter), for his family in the village of Huang Cun, located in southeastern China. In 1997, Yin Yu Tang was dismantled and shipped to the Peabody Essex Museum in Salem, MA, with the belief that "architecture can communicate cultural values and rich traditions and inspire the ever-evolving cultures of all societies," according to the Museum. Built during the Qing Dynasty, the house is the first historic building brought, in its entirety, from China to the United States. Yin Yu Tang is an excellent example of a centuries-old Huizhou prefecture merchant's house, a vernacular building type well known in the province of Anhui.

"The central courtyard defines much of the character of Yin Yu Tang," says John G. Waite, principal with John G. Waite Architects (JGWA), the architects in charge of the preservation and re-erection. "It is the most important source of light and air in the house, and connects two parallel structures: the lower hall on the north side and the upper hall on the south side." Generations of the Huang family lived in Yin Yu Tang until the 1980s, when the family left the village and the house was vacant except for furniture and papers. In 1997, with the permission of local and national authorities, the support of the family and the participation of cultural authorities and artisans, the house was dismantled and shipped, along with its contents, to the Museum. The goal of these participants was to preserve the house and its contents (including family documents); to present the house to the public as an example of Chinese vernacular architecture, interpreting it and its associated decorative arts for visitors; and to raise awareness of Chinese culture.

To accomplish this goal, JGWA first traveled to Huang Cun and the surrounding villages to study other houses in the region. Yin Yu Tang was built in a well-established style in the Huizhou region: a fortress-like structure built around a central courtyard, with stone foundations and paving, mortise-and-tenon timber framing and brick walls covered with white-lime rendering. Exteriors are austere, while interiors feature ornamental carvings in wood and stone. "We wanted to look at other buildings in the region, and to learn all we could about how buildings were historically constructed there," says Waite. At the same time, they discovered the original foundations of Yin Yu Tang's kitchens, which had collapsed in the 1970s. "The trip enabled us to study construction detailing and building trades. The trades are, for the most part, unchanged from 200 years ago – craftspeople are still making brick and roof tile immediately outside the village, lime is still prepared in the same way and they are still producing hand-wrought nails," Clay Palazzo, Project Manager and a principal with JGWA, says. Waite adds, "We had to use some modern materials, but they came from the same source and location and were made using the same techniques as the original."



Capped with upturned roof tiles, the stepped parapet walls, known locally as horsehead walls, skirt the east and west ends of the house, and are decorated with painted geometric designs.

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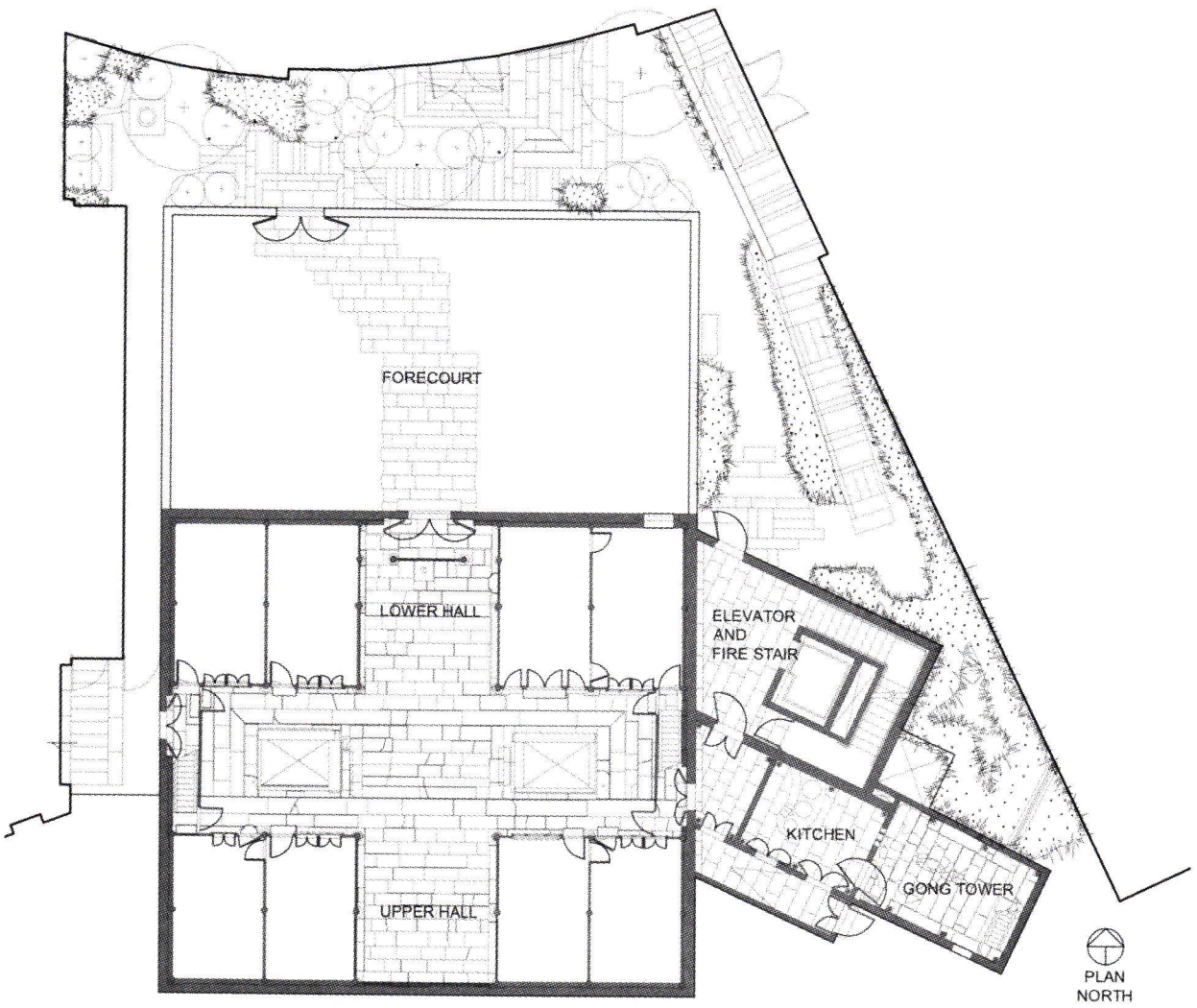
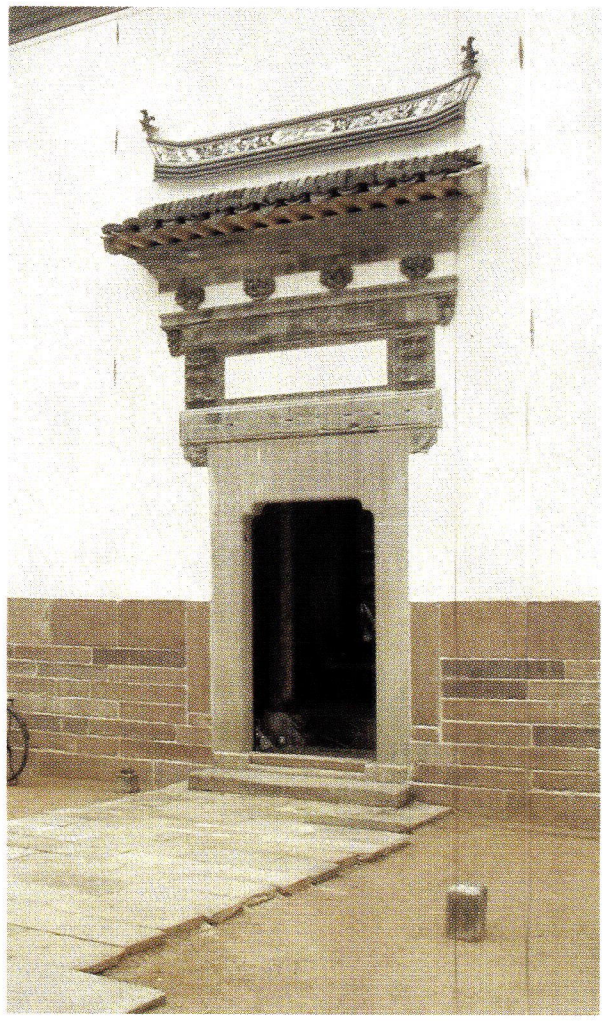


Yin Yu Tang was situated to face north in its new home, just as it did in China.



The main entrance to Yin Yu Tang is decorated with ornamental carved birds and lotus flowers on the brick and tile hood above the doorway.

In 1997 the building parts arrived in Massachusetts, and in 1998 JGWA began a three-year process of identifying, inventorying, documenting and conserving the individual pieces in a warehouse. On-site construction was done from spring 2002 to spring 2003, with work completed in June 2003. "Because this project was integrated with a larger Museum expansion, we had a very strict window for construction. We couldn't start until a given date, because the site was the location of a crane for the museum expansion work. We also had to end the project on time, since there was an announced, predetermined Museum opening date," says Palazzo.

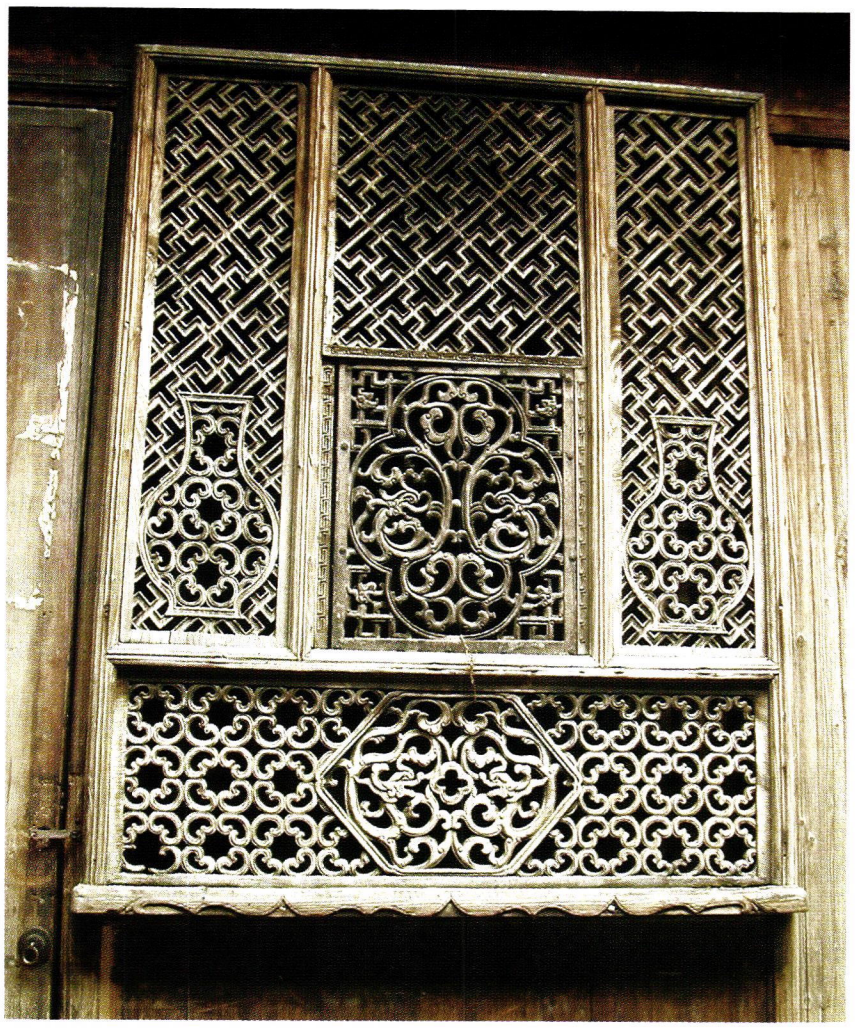
"Our job was essentially to work with photographs, take a complete inventory of the pieces and make measured drawings from the pieces. We had to figure out how it all went back together, assessing the condition of the materials, and determining whether they had to be cleaned, repaired or conserved," says Palazzo. A team of American craftspeople was brought together with Chinese artisans to help in the re-erection. New materials were required to have the same physical and chemical characteristics as the original materials, but the new work was coded differently from old pieces to distinguish it from the historic building fabric.

The project team drafted guidelines for the conservation of the house and its reconstruction (including an annex and a new basement to contain mechanical and electrical equipment), which were submitted to a panel of internationally recognized preservation experts for peer review and endorsement. "This is something that was very unusual in the historic preservation field – moving a significant historic building to a completely different location. We based our Preservation Guidelines on a number of international charters drawn by UNESCO and others for the treatment of historic buildings," says Waite. The review committee included representatives of the National Park Service, Society for the Preservation of New England Antiquities and Association for Preservation Technology International, as well as several universities. Once the guidelines were developed, work could begin.

"Documentation was a big issue," says Palazzo. "We had to separate the materials in the warehouse: timber-framing materials in one area, foundation stone in another, paving stone in another, flooring in

Huizhou-region buildings of Yin Yu Tang's time were typically fortress-like structures built around an interior courtyard.

The courtyard connects the lower hall on the north side with the upper hall on the south side of the building.



For privacy and ventilation, intricately carved wood lattice screens were used to cover the windows on the first-story bedrooms.

another and interior partitions in yet another." The architects had to completely erect the foundation walls to survey them for repairs. "The approach was to save all found material, if possible. The building was in fairly good condition, so outright replacement only made up a small percentage of the work. Repairs consisted of scarf joints for the columns and historic veneers on replacement beams," he says.

In order to conserve the original reddish-brown sandstone that was used at the base of the masonry walls and for paving, it had to be cleaned with a chemical process that removed biological growth and dirt, enabling the conserved and replacement stones to blend seamlessly with the originals. As often as possible, traditional repairs were undertaken, rather than high-tech conservation. "The conservation included pinning broken stones, installing patches and backing weakened pieces of stone with new stone," says Waite. To replace missing pieces, sandstone from the same hillside quarries used 200 years ago near Huang Cun was brought in.

The wood elements of Yin Yu Tang also had to be conserved. The timber frame was constructed without nails, so traditional joinery techniques were used for the repair and conservation. (Wrought-iron nails were originally used in other parts of the construction, for securing rafters, ceilings and floorboards.) Through extensive testing, the architects found that the timber frame could withstand the loads imposed on it by New England weather. Any repairs that had to be made used species of American wood, such as salvaged, early-growth pine and cypress, that were similar in character and strength to the original Chinese wood. To replace beams deteriorated by insects and/or water, "a veneer was cut away from sound parts of the old beam and attached to the exposed face of the new beam with dovetail splines or tenons," explains Palazzo. Flooring, ceilings, wall partitions, doors, window sash and frames and the carved screens all required varying degrees of repair and replacement.

Two of the major challenges in re-erecting Yin Yu Tang were the weather differences between Huang Cun and Salem, and the accessibility and life-safety requirements imposed by modern building codes. Yin Yu Tang was originally located in an interior, southern province in China. The owner felt that the house had to be erected outside so as to "reflect the character of the original setting," but the northern, coastal nature of Salem's New England climate meant that the re-erected house would need to be protected in ways the original didn't require.

To shelter the house, a plywood roof deck was attached to the upper face of each of the original 2-in.-square rafters. The roof deck acted to resist lateral seismic forces and provided a foundation for a weather-tight roofing membrane. New base tile, specially manufactured to resist severe weather, was installed. "The base tile was made by Orchard Park, NY-based Boston Valley Terra Cotta – it is very durable and has a gray glaze to match the original tile. The original cap tile was retained, allowing the roof to look the same as it had in China. Each tile was drilled with a single 1/8-in. hole and tied to the roof deck with a concealed stainless-steel tie-wire system. The curved, unglazed ceramic cap tile originally was not fastened, but "held by gravity", says Palazzo, and therefore subject to displacement and water infiltration. "The cap tile was now considered expendable," explains Palazzo. Every year an inspection will be done, and replacements can be taken from a stockpiled source of salvaged Chinese tile."

In addition, a paneled skylight system was developed to cover the open courtyard during the winter months. The timber frame of the house was reinforced to support the added weight of the system and the anticipated snow loads. Sloping, laminated-glass panels, supported by stainless-steel rails, were placed above the ceramic-tile roofing. The paneled skylight was made to be removed in the warm months by crane (and stacked, unseen from the ground, on the museum roof) and reinstalled come fall.

Yin Yu Tang was categorized as a new building under the Massachusetts State Building Code, because it had been taken apart and because it was not deemed important in the history of the United States. As a result, it had to be rebuilt to conform with current life-safety and accessibility codes. The modifications were designed not only to minimize the impact on the house, but many were also designed to be reversible, so that more advanced technologies could be used in the future. "In general it goes back to traditional repairs," explains Palazzo. "We used dutchman wood or stone repairs, not epoxy consolidation. For instance, to repair rotted columns, we used blind dovetail wooden splines inserted as core pieces running vertically inside the columns. These can be taken apart at any time."

Stone carvers created fine floral designs on the bases of the courtyard columns, each with details reflecting one of the four seasons.

Chinese craftspeople, like this carpenter, worked alongside American craftspeople, combining knowledge for a flawless re-erection.

A fire-detection and -suppression system had to be installed, along with new heating, ventilating and plumbing systems and electrical wiring and lighting. To meet seismic requirements, the timber frame, masonry walls and roof structure had to be reinforced. "There was little room to insert electrical conduits, mechanical ductwork or piping, since the floorboards on the second floor were also the ceiling boards of the first story and the interior partitions were either solid-wood paneling or thin bricks laid on edge," explains Waite. "This was one of the most innovative parts of the project," he adds. The timber frame, which supports the second floor and the clay tile roof, was exposed, so it was hard to hide anything mechanical. The interior partitioning, whether brick or wood, was only 2 in. thick, posing a similar problem. "Early on," says Palazzo, "we decided that the exterior Chinese brick masonry wall, which is self-supporting and is 10 in. thick, could hide the building services." The architects' solution was to fabricate the electrical conduits, HVAC ductwork and pipe sleeves for the fire-protection system from structural-grade stainless steel, which would also serve as seismic reinforcement for the masonry envelope of the building. All the building systems were located in the basement.

Dictated by feng shui, the passageways in Yin Yu Tang were designed to be indirect in order to "retain good spirits and ward off evil ones," explains Waite. This presented problems in terms of the requirements

Above: The design of this bed, one of the most elaborate pieces of furniture in a house such as this, is typical of the style of the area.

Right: The reconstructed kitchen, one of three original kitchens, is located in the annex to the east of the house.

for the Americans with Disabilities Act. To address this issue, the architects changed the entranceways from raised-stone thresholds into automated, self-leveling ones. "Instead of cutting the original threshold into multiple pieces," Palazzo explains, "it was put into storage and a replacement was made." Wood-paneled partitions were made into free-swinging, invisibly hinged doors. An elevator also had to be installed, as well as fire stairs to the second story. At the east end of the house, an annex, which incorporated the modern elevator and stair tower, the original gong tower, a vestibule and a reconstructed kitchen, was erected. "The roofline of the annex was determined by studying ghost patterns, found on the east wall of the house, which had survived from an earlier building," says Waite. The annex connects to the main building at both levels through original door openings. "There's only one kitchen, instead of the original three," says Palazzo, "but the gong tower and the kitchen are in their correct orientation and connected by an exterior passageway as they were in China."

One of the unseen results of this project was a cultural exchange that was unprecedented and very beneficial. "The interesting thing," says Palazzo, "was that despite the language barrier, the American and Chinese craftspeople could often understand each other because of their familiarity with the building trades. It didn't matter if the interpreter didn't know the trade jargon."

"Because the construction management firm, Liberty Street Restoration, is owned by the principals of our architectural firm," says Waite, "it gave us and the owners as much control as possible in terms of quality, cost and time. Under the direction of Michael Curcio (also a principal of JGWA), it was an innovative way to carry out a preservation project, and we believe this method holds a great deal of promise for future historic preservation projects." He adds, "The building has proven to be very popular at the museum. Tickets are frequently sold out."

– Marieke Cassia Gartner

In addition to the building, furniture and papers were brought to America. This room contains some of these elements, including a **huotong**, *on the left, a fire bucket common in southern and central China.*

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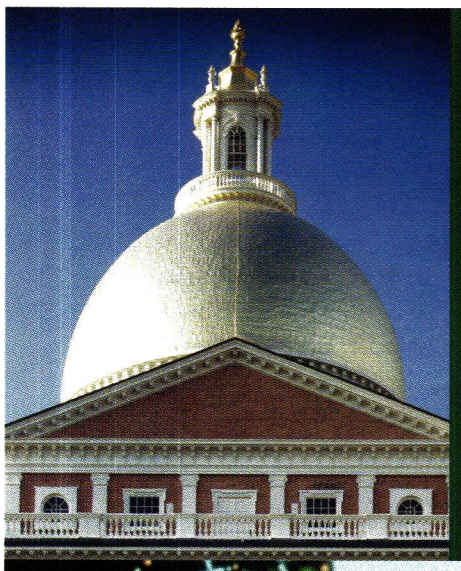

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www.aandmvictorian.com
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A&M Victorian Decoration's model #F13 mantel was used in this 1998 Street of Dreams home in Las Vegas.

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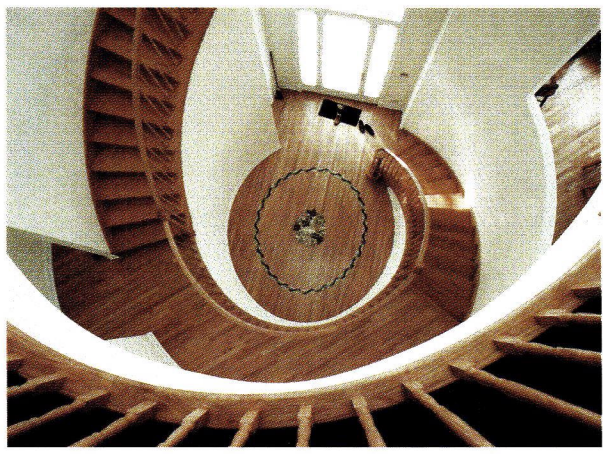

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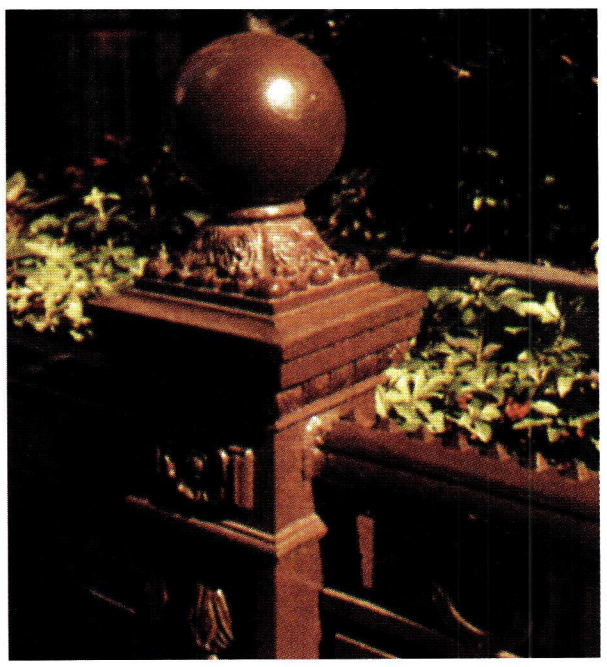

Allen Architectural Metals supplies cast-metal ornament such as this decorative planter.

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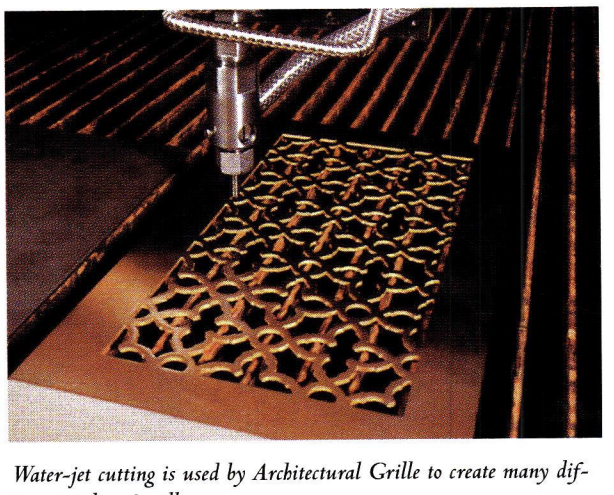

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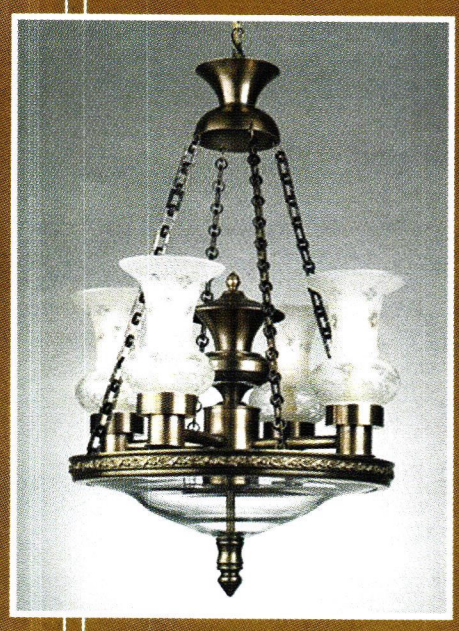

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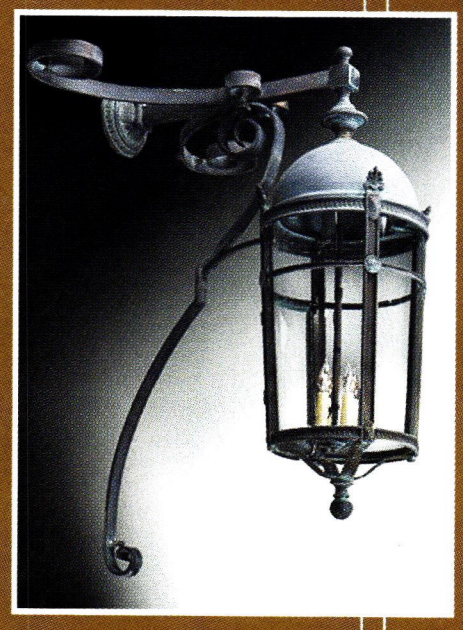

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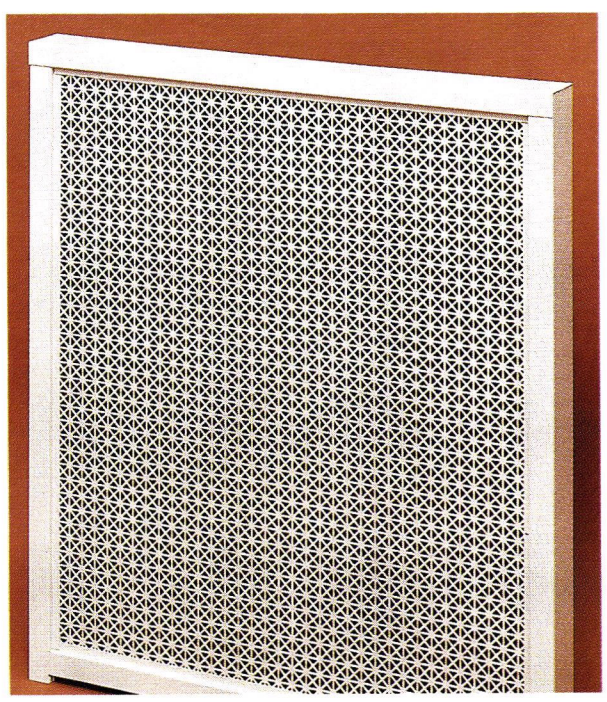

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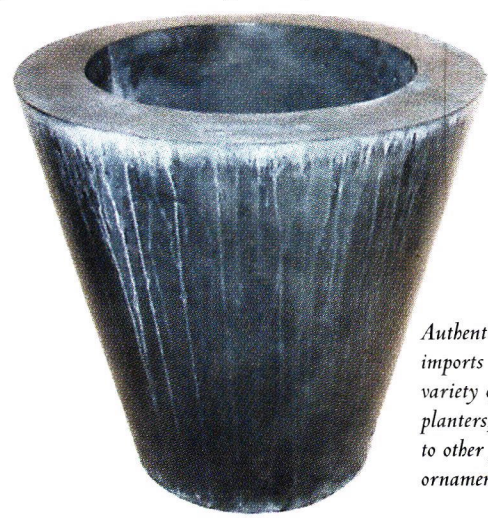

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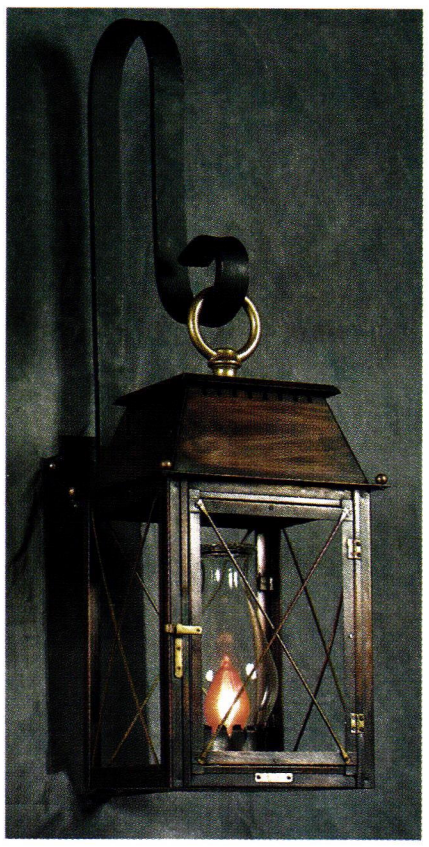

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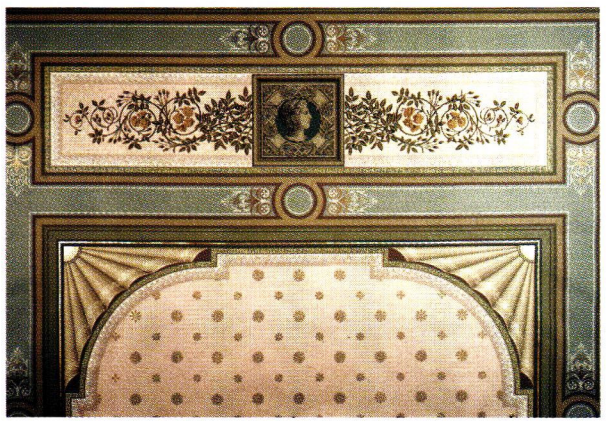

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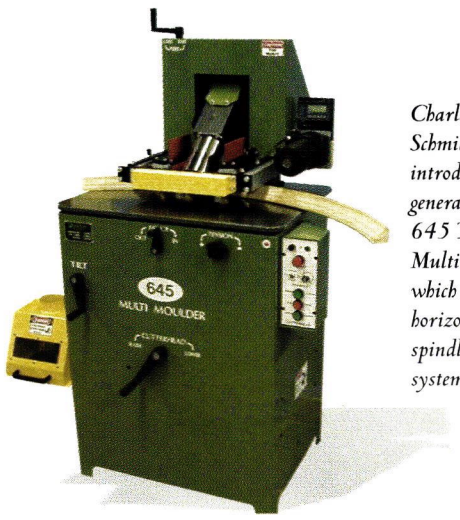

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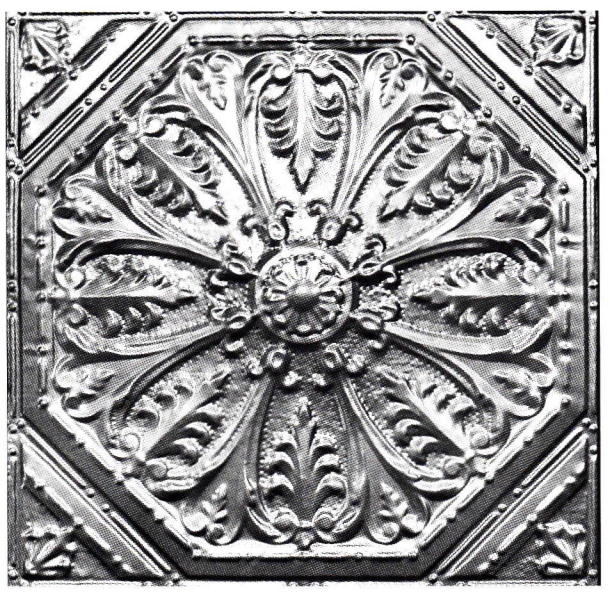

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Supplier of pressed-tin panels for ceilings & walls: easy to install; sheets in 2x4-ft. sections; cornices in 4 ft. lengths; Victorian, Art Deco & other styles; designs come in 6-, 12- or 24-in. repeat patterns; shipped anywhere. *Write in No. 190*

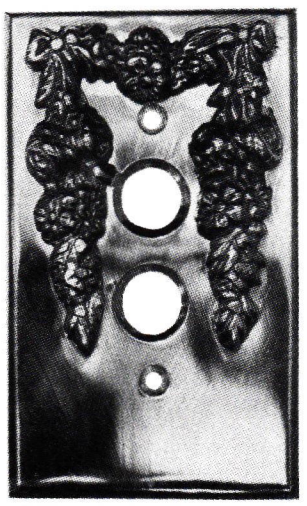
◆ ◆ ◆

This custom hanging lantern was designed and forged by Christopher Thomson Ironworks for a home in Santa Fe, NM.

Christopher Thomson Ironworks
505-421-2645; Fax: 505-421-2618
www.ctiron.com
Ribera, NM 87560

Designer & fabricator of hand-forged door hardware, grand chandeliers, wrought-iron lanterns, baluster railings & driveway & garden gates: old-world to contemporary styles; UL-approved interior & exterior lighting; catalog $20. *Write in No. 8069*

◆ ◆ ◆



This polished cast-brass, rose push-button light switch is supplied by Classic Accents with a lacquer-coated mirror finish.

Classic Accents, Inc.
800-245-7742; Fax: 734-284-7185
www.classicaccents.net
Southgate, MI 48195

Supplier of UL-listed push-button light switches: plain or ornamental brass & wooden plates; brass molding hooks, decorative tassels & picture-hanging cord. *Write in No. 371*

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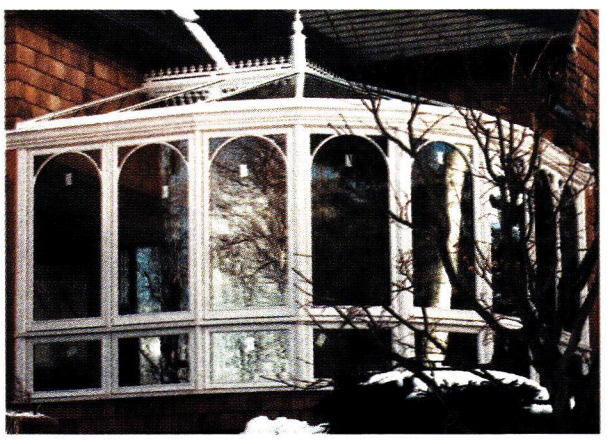
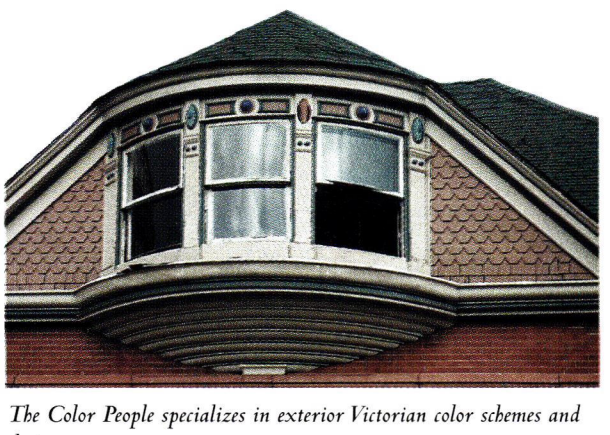


True-divided-lite windows grace this structure by Colebrook Conservatories, designers of aluminum and Honduras mahogany mortise-and-tenon constructed outbuildings.

Colebrook Conservatories
800-356-2749; Fax: 860-738-0429
www.colebrookconservatories.com
Winsted, CT 06098

Designer, fabricator & installer of traditional conservatories, greenhouses, lanterns & screened porches: aluminum & wood; Honduras mahogany mortise-&-tenon construction; true-divided-lite windows, doors & interior shading systems; custom design & fabrication in any period or architectural style. *Write in No. 382*

◆ ◆ ◆



The Color People specializes in exterior Victorian color schemes and designs.

Color People, The
303-308-0220; Fax: 303-308-0123
www.colorpeople.com
Denver, CO 80205

Color consultant: custom exterior color schemes for houses, businesses, Main Streets & townscapes; Victorian specialist; consultation through photos via mail; some on-site consulting. *Write in No. 5470*

◆ ◆ ◆

Colorado Waterjet Co.
970-532-5404; Fax: 970-532-5405
www.coloradowaterjet.com
Berthoud, CO 80513

Manufacturer for ornamental-metal fabricators: abrasive water-jet-cutting services; ornamental gates, panels for gates, fencing, railings & balustrades, stairs, lighting, hardware, sculpture, signage, plaques, registers & grilles; iron, steel, stainless steel, aluminum, bronze, wrought iron/fabricated metal, brass & copper; custom components. *Write in No. 262*

This elaborate railing was made of ½-in.-steel panels cut by Colorado Waterjet.

◆ ◆ ◆

Country Road Associates, Ltd.
845-677-6041; Fax: 845-677-6532
www.countryroadassociates.com
Millbrook, NY 12545

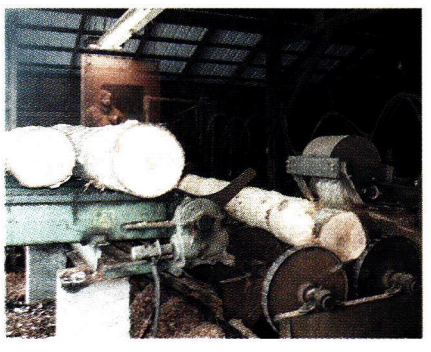
Manufacturer & distributor of 19th-century reclaimed flooring materials, barn siding & hand-hewn beams: white pine, hemlock, heart pine, white oak, chestnut & black walnut; wide board & random width; custom cabinetry. *Write in No. 7480*

Country Road Associates recycles 19th-century barn wood into furniture, flooring and paneling.

◆ ◆ ◆

Cowls Lumber
413-549-1403; Fax: 413-549-0000
www.cowls.com
North Amherst, MA 01059

Supplier of oak, pine, hemlock & Douglas fir posts & beams, timbers & 14 patterns of lumber: can dress timbers on site; supplies large variety of building materials; structural-grade stamping of timbers; quotes & orders online. *Write in No. 5270*



Logs go through Cowls' debarker before they are ready to be sold as lumber or post-and-beam timbers.

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P. E. Guerin, Inc.

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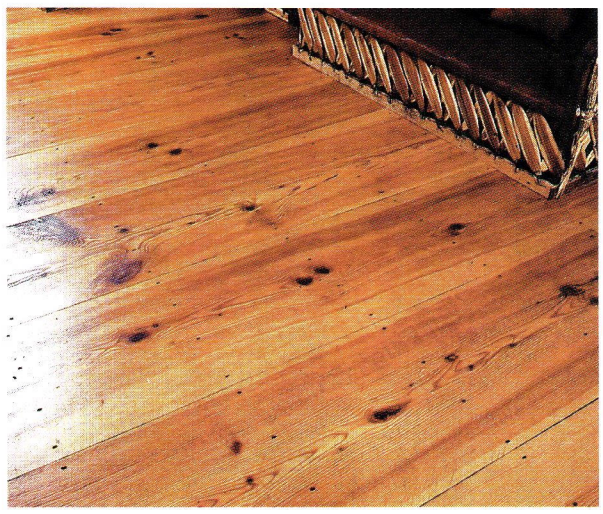
WRITE IN NO. 343

HISTORICAL PRODUCTS SHOWCASE



Craftsman Lumber manufactured this wide red pine flooring, which was dried and machined on site.

Craftsman Lumber Co.
978-448-5621; Fax: 978-448-2754
www.craftsmanlumber.com
Groton, MA 01450

Manufacturer of wood flooring: custom; paneling; from 6 to 26 in. wide; antique heart pine & chestnut; eastern white pine, red pine, northern red oak, white oak, cherry, walnut & ash; all material dried & machined on premises. *Write in No. 4320*

◆ ◆ ◆

This Cumberland Woodcraft porch treatment features intricate Victorian-style corner brackets.

Cumberland Woodcraft Co.
800-367-1884; Fax: 717-243-6502
www.cumberlandwoodcraft.com
Carlisle, PA 17013

Manufacturer of millwork & ornament: balustrades, railings, corbels, carvings, molding, appliqués, brackets, gable treatments, casings, paneled & screen doors & porch trim; mantels, paneling & cabinetry; hand crafted; Spanish cedar, poplar & mahogany; non-load-bearing polymer & carved-wood capitals & columns in oak, maple, mahogany & cherry; Victorian trim; licensee of the Victorian Society in America for wood trim. *Write in No. 1310*

◆ ◆ ◆

Decorative Iron
888-380-9278; Fax: 713-991-6493
www.decorativeiron.com
Houston, TX 77075

Supplier of decorative iron components & finishing details for metalwork: components for fabricating, repairing & decorating metalwork; railings & gates in wrought iron & steel. *Write in No. 3056*

The C.I. Tulip Valance Casting, model #680, is one of many designs available from Decorative Iron.

Decorative Outdoor Products
877-434-7730; Fax: Same as phone
www.decorativeoutdoorproducts.com
Randolph, VT 05060

Supplier of exterior decorative architectural elements: post caps, finials, arbors, pergolas, accessories, wind chimes, picket & lattice fencing, gates, trellis panels, mailboxes, mailbox posts, furniture, post dressing & fluted post sleeves in red cedar. *Write in No. 2621*

◆ ◆ ◆

Decorators Supply Corp.
773-847-6300; Fax: 773-847-6357
www.decoratorssupply.com
Chicago, IL 60609

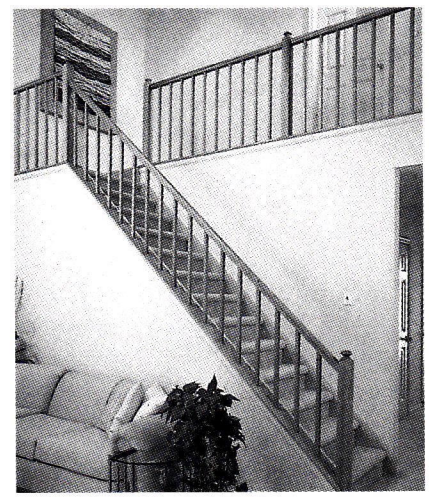
Supplier of 14,000 patterns for period architectural elements & molded ornament since 1893: cornice moldings, columns & capitals, mantels, door & window surrounds, ornamental ceilings, ceiling medallions, niches & domes, brackets & corbels; plaster of Paris, compo & wood; set of 6 catalogs, $35. *Write in No. 210*

Decorators Supply offers thousands of molded period architectural elements.

◆ ◆ ◆

Deer Park Stairbuilding & Millwork
631-363-5000; No fax
51 Kennedy Ave.
Blue Point, NY 11715

Designer & fabricator of wood stairs & rails: straight, curved, circular & spiral stairs & millwork. *Write in No. 1107*



Since 1952, Deer Park Stairbuilidng has designed and manufactured custom and standard stairs and prefabricated railings in a variety of wood species.

◆ ◆ ◆

Designer Doors, Inc.
800-241-0525; Fax: 715-426-4999
www.designerdoors.com
River Falls, WI 54022

Manufacturer of historically styled, overhead, wood garage doors & matching entryways: many replicate carriage & vintage swing & folding doors that function as overhead doors; barn-door style; matching service for doors; clear-grade western red cedar, Douglas fir & other species as specified; hand crafted; stock & custom products. *Write in No. 109*

The window shapes, sizes and clustering found in these garage doors manufactured by Designer Doors are proportional to the detail and character of the French Country architecture in this home.

◆ ◆ ◆

Erik Wyckoff Artworks
612-617-0446; Fax: Same as phone
2303 Kennedy St. NE
Minneapolis, MN 55413

Custom designer & fabricator of hand-carved architectural woodwork: original entry, interior & wine cellar doors; most wood species. *Write in No. 298*

Erik Wyckoff Artworks custom designed and fabricated this wine-cellar door.

◆ ◆ ◆

Fagan Design & Fabrication, Inc.
203-937-1874; Fax: 203-937-7321
www.fagancolumns.com
West Haven, CT 06516

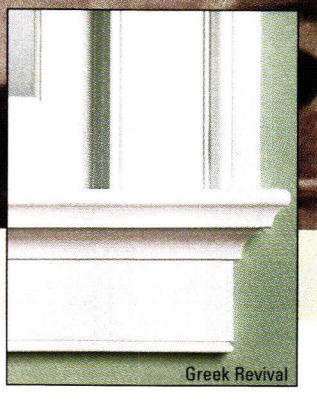
Manufacturer & custom fabricator of wood columns, cylinders, rope twists, large turnings, octagons & pilasters: Classical order; load bearing & ornamental; columns also in plaster/gypsum, custom FRP fiberglass & GFRC; up to 42 in. in dia. & 24 ft. in length. *Write in No. 8210*

Fagan Design & Fabrication manufactured these Roman Doric columns with Attic Bases.

Reviving the lost art of moldings.

120 years ago, skilled craftsmen used a single knife, drawn by hand...

We use 72 precision-tooled, razor-sharp knives spinning at 6,000 r.p.m.

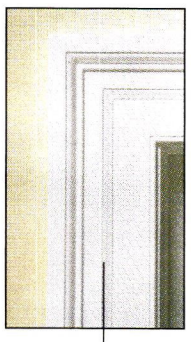


Introducing the **WindsorONE™ Moldings Collection**

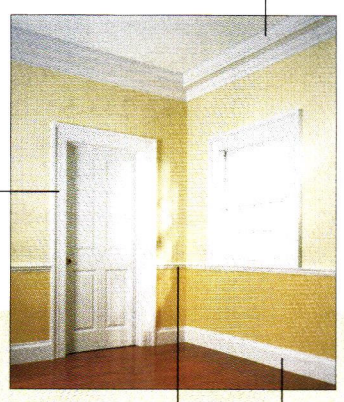
We've made it so easy—from the **precision quality** of our historically-accurate moldings to our unique **whole-room concept.**

Our collection includes four Classic American Molding Styles, inspired by molding pattern books of the late 1800s and early 1900s. *Classical Colonial, Greek Revival, Classical Craftsman, Colonial Revival.* Each Style includes all the moldings and trim you'll need to complete an entire room... from the crown molding to the base boards and everything in between. We've taken the guesswork out of matching individual pieces to achieve correct scale and proportion in a room.

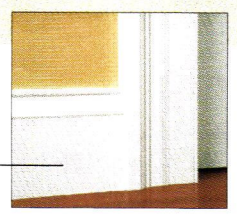
The hearty profiles of the WindsorONE Moldings Collection have the detail, depth and richness not found in many of today's moldings. Each molding is crafted from WindsorONE's high-quality, fingerjointed, double-primed wood.

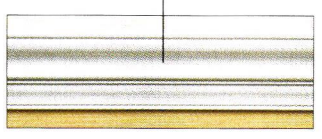


Ask your local lumberyard to show you the new WindsorONE Moldings Collection today.



Whether a house was built in 1820 or will be ready in 2004... there's no guesswork. Each Style comes complete with everything you'll need to expertly trim out a room.





For an Introductory WindsorONE Moldings Collection Kit, call **888/229-7900** or visit us at **www.WindsorONE.com/moldings.**

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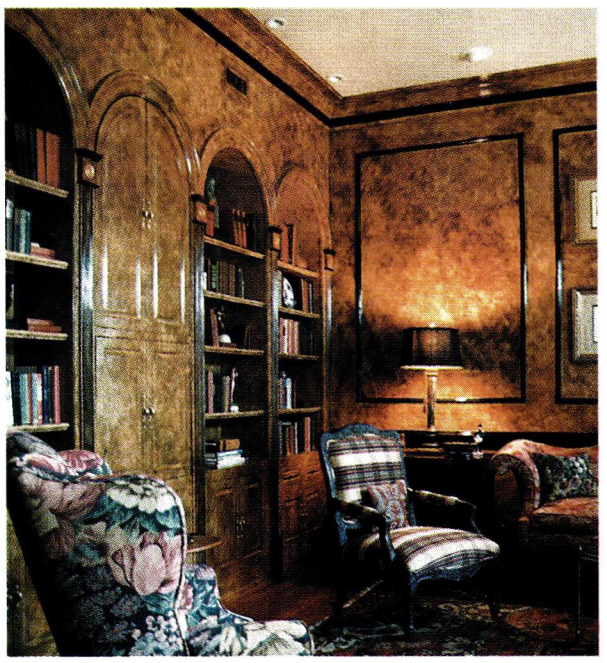
WRITE IN NO. 455

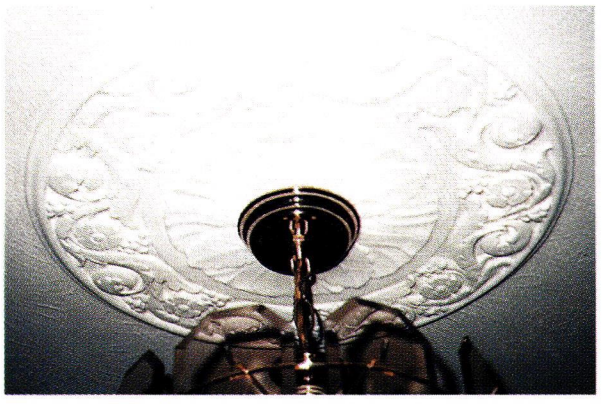
HISTORICAL PRODUCTS SHOWCASE



Faux Effects finished the walls and moldings in this striking room.

Faux Effects International, Inc.
772-778-9044; Fax: 772-778-9653
www.fauxstore.com
Vero Beach, FL 32960

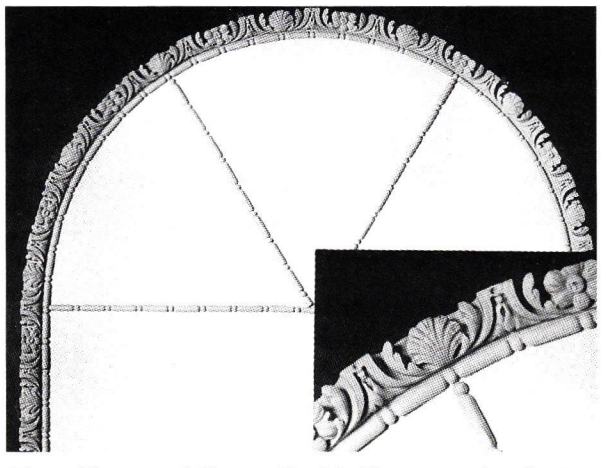
Manufacturer of more than 200 water-based faux- & decorative-finishing products: Venetian Gem & Olde World Marmarino plaster, Fresco Finish, Plastertex, Sandstone, Lime Wash, custom-pigmented canvas murals & Custom Art Imprints; workshops nationwide; in business since 1990. *Write in No. 4690*



This ceiling medallion is one of many hand-crafted plaster ornaments available from Fischer & Jirouch.

Fischer & Jirouch
216-361-3840; Fax: 216-361-0650
www.fischerandjirouch.com
Cleveland, OH 44103

Manufacturer of hand-crafted architectural ornament: interior & exterior; casting & PC plaster; mantels, cornice moldings, door & window surrounds, ornamental ceilings, ceiling medallions, niches & domes, brackets & corbels; ornamental wood & plaster/gypsum columns up to 34 in. in dia. & 42½ in. in length; pilasters & capital bases; custom work. *Write in No. 1960*



This molding is available from Flex Moulding in several grades, from very flexible to fully rigid.

Flex Moulding, Inc.
201-487-8080; Fax: 201-487-6637
www.flexiblemoulding.com
Hackensack, NJ 07601

Supplier of more than 3,000 flexible & rigid moldings, spot decorations, simulated wood carvings & more: custom casting & moldmaking capabilities; restoration casting. *Write in No. 4900*

Florentine Craftsmen, Inc.
800-876-3567; Fax: 718-937-9858
www.florentinecraftsmen.com
Long Island City, NY 11101

Supplier of ornamental metalwork & stonework: garden elements, gazebos, treillage, sculpture, furniture, garden & wall fountains, ground basins for fountains, water gardens, supplies & more; bronze, aluminum, carved & cast stone, lead & wrought iron/steel.

Florentine Craftsmen offers a range of hand-carved limestone benches with Classical ornamental features.

Foster Wood Products Inc.
800-682-9418; Fax: 706-846-3487
www.fosterwood.com
Shiloh, GA 31826

Supplier of flooring: heart & long-leaf yellow pine; large timbers. *Write in No. 124*

Gaslight America West
281-376-5200; No fax
www.gaslights.com
Spring, TX 77391

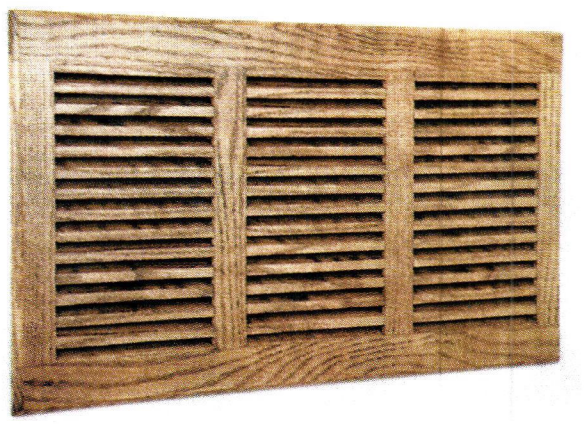
Manufacturer of gaslights & accessories: aluminum & copper; patio torches; burners, burner tips, valves, panes & globes, finials & gaslight mantles. *Write in No. 1185*

Good Time Stove Co.
413-268-3677; Fax: 413-268-9284
www.goodtimestove.com
Goshen, MA 01032

Supplier of antique kitchen ranges & heating stoves: ca. 1840-1930; restored enamel, cast iron, wood & wood-gas combos; electric conversions; wood- & gas-burning fireplaces & stoves. *Call for more information.*

Goodrich & Company
717-796-2379; Fax: 717-796-2384
www.historichomeshow.com
Mechanicsburg, PA 17055

Producer of the Greater Philadelphia Historic Home Show: showcases the restoration & renovation of American architecture & furnishings & construction of new homes; interior & exterior; 18th- to 20th-century structures. *Write in No. 125*



The wooden, wall-mounted cold-air-return vent from Grate Vents measures 20x14 in.

Grate Vents
815-459-4306; Fax: 815-459-4267
www.gratevents.com
Crystal Lake, IL 60014

Manufacturer & distributor of wood floor, wall & baseboard grates: from 2x10 in. to 20x32 in.; egg-crate & louvered designs; registers, grilles, baseboards & radiator covers; all wood species. *Write in No. 5040*

This vast selection of period hardware was handmade by P.E. Guerin.

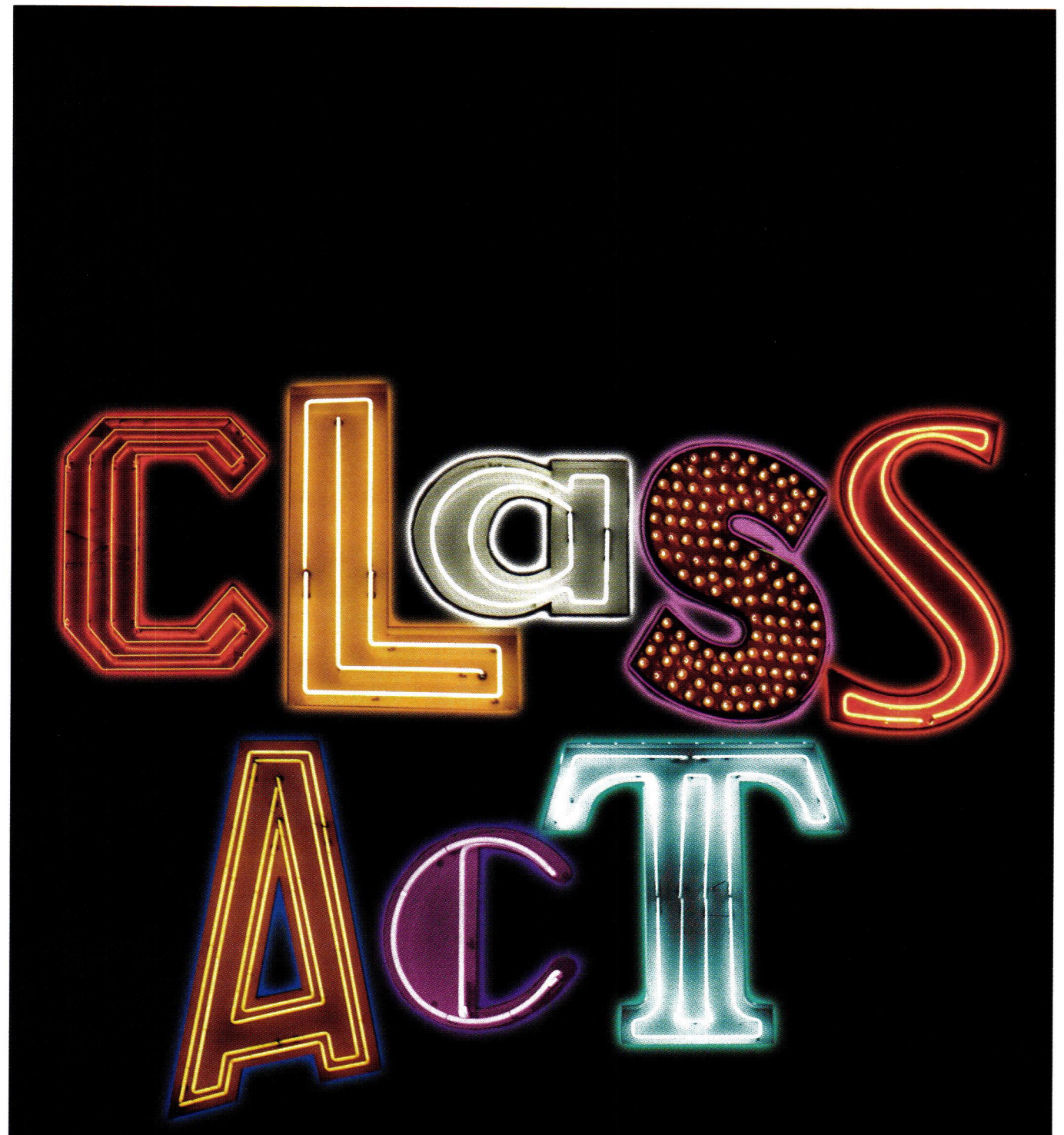
Guerin, P.E.
212-243-5270; Fax: 212-727-2290
www.peguerin.com
New York, NY 10014

Manufacturer of handmade period lighting & hardware: wall sconces, lanterns & valance lighting; Louis XIV, Art Deco & other styles; hardware for baths, doors, furniture, light fixtures, tables & moldings; switch & key plates; made to order; since 1857; brochure $25. *Write in No. 343*

Haddonstone (USA), Ltd.
856-931-7011; Fax: 856-931-0040
www.haddonstone.com
Bellmawr, NJ 08031

British- & U.S.-based manufacturer of landscape ornament & architectural cast stonework: balustrades, columns & capitals, porticos, cornices, molding & trim, molded panels, statuary, pier caps, copings, benches, fountains, outbuildings, gazebos, planters & urns, pavers & custom components; cast-limestone fireplaces in 3 colors; 156-page catalog. *Write in No. 4020*

The Versailles Fountain, model #HC800, from Haddonstone, is self-circulating and stands 15⅜ in. tall.



It kicks off the New Year, runs for four fully packed days and stars the biggest names in the home-building industry—it's THE 2004 INTERNATIONAL BUILDERS' SHOW.

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HISTORICAL PRODUCTS SHOWCASE

Hahn's Woodworking manufactured these sectional, overhead-operating, carriage-house barn doors, model #201, in redwood.

Hahn's Woodworking Company, Inc.
908-793-1415; Fax: 908-793-1420
www.hahnswoodworking.com
Branchburg, NJ 08876

Manufacturer of historically correct carriage-house doors: overhead (can be electrically operated), swing-out & sliding modes of operation; hardware systems included; pre-hung & weather sealed; mortise-&-floating-tenon joinery; true-divided lites; Honduras mahogany, Spanish cedar, Meranti mahogany & other species; since 1984. *Write in No. 6640*

◆ ◆ ◆

Hans Duus Blacksmith forged this exterior lantern.

Hans Duus Blacksmith, Inc.
805-688-9731; Fax: 805-688-1793
hansduus@silcom.com
Buellton, CA 93427

Blacksmith & supplier of forged lighting: chandeliers, wall sconces, pendants & exterior lighting. *Write in No. 8041*

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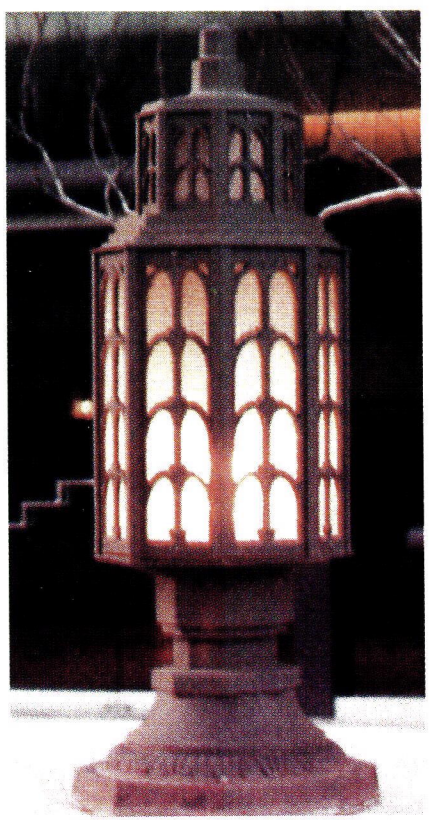


Herwig Lighting's model #M-1759 cast-aluminum octagonal pier lantern features crystal moss glass sealed in silicone.

Herwig Lighting
800-643-9523; Fax: 479-968-6422
www.herwig.com
Russellville, AR 72811

Manufacturer of custom & hand-crafted exterior lighting fixtures, furniture, fences & gates, capitals, street clocks & cast-aluminum posts to 14 ft.: since 1908. *Write in No. 9130*

◆ ◆ ◆

Hinkley Lighting manufactured this Arts and Crafts-style lantern.

Hinkley Lighting
800-HINKLEY; Fax: 216-671-4537
www.hinkleylighting.com
Cleveland, OH 44111

Manufacturer of lighting fixtures: lanterns, sconces, table & floor lamps, chandeliers, pendants & ceiling fixtures; exterior, landscape, garden & site fixtures; Arts & Crafts, Victorian & Early American styles; custom designs. *Write in No. 680*

◆ ◆ ◆

Hotwire Direct
800-555-4042; Fax: 509-751-1910
www.hotwiredirect.com
Clarkston, WA 99403

Manufacturer of computerized & manual machines for cutting expanded polystyrene (EPS): coated & applied or cut into plugs (positives) &/or molds for making precast-concrete architectural details. *Write in No. 448*

◆ ◆ ◆

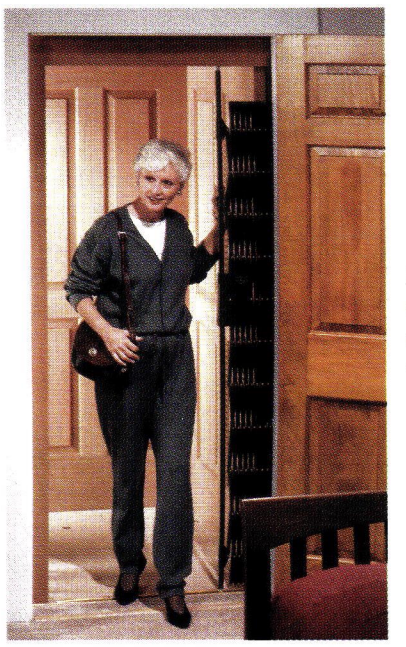
This timber frame was designed and constructed by Hugh Lofting Timber Framing for a residence nestled in the woods.

Hugh Lofting Timber Framing, Inc.
610-444-5382; Fax: 610-869-3589
www.hughloftingtimberframe.com
West Grove, PA 19390

Designer & manufacturer of timber frames: private homes, additions, barns, studios, gazebos & more; mortise-&-tenon joinery; many species; custom work. *Write in No. 663*

Inclinator Co. of America
717-234-8065; Fax: 717-569-8726
www.inclinator.com
Harrisburg, PA 17105

Manufacturer of residential elevators, wheelchair lifts, dumbwaiters & stair lifts. *Write in No. 9980*



Inclinator manufactures dumbwaiters and elevators in custom sizes and materials.

◆ ◆ ◆

Indital, USA
800-772-4706; Fax: 713-694-2055
www.indital.com
Houston, TX 77028

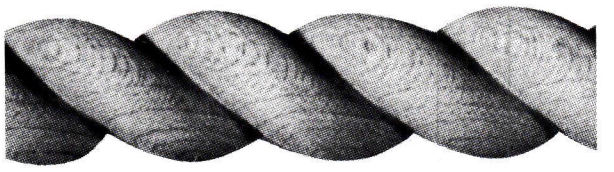
Supplier of more than 8,500 Italian-designed architectural steel forgings: signature rosettes, Baroque leaves, spears & a full array of pickets that can be fabricated to create staircases, partitions, fences & more; gates, railings, balusters & stairs; metal ornament; wrought iron. *Write in No. 6560*

This entry gate exemplifies the delicate ornamental metalwork available from Indital, USA.

◆ ◆ ◆

JMS Wood Products
818-348-7230; Fax: 818-348-7231
6617 Independence Ave.
Canoga Park, CA 91304

Supplier of rope moldings from 3/8 to 3 in. in dia. & rope columns from 4 to 24 in. in dia.: any species; rope, fluted & twist designs for furniture or stairs; plinth blocks for door surrounds; mantels. *Write in No. 6320*



This hardwood rope molding from JMS Wood Products is available in diameters ranging from 3/8 in. to 3 in.

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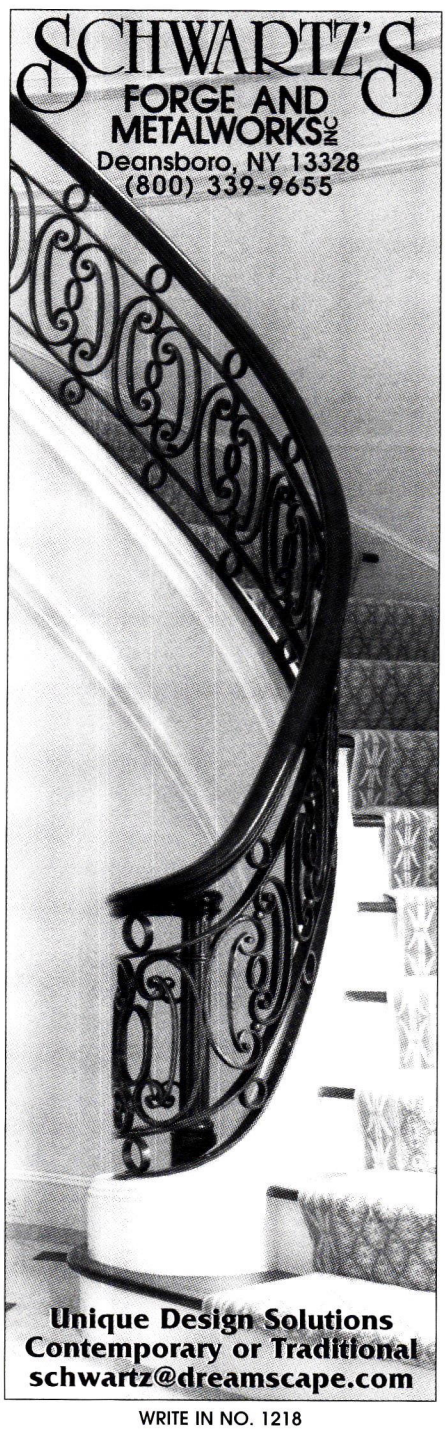
FORGE AND METALWORKS INC
Deansboro, NY 13328
(800) 339-9655



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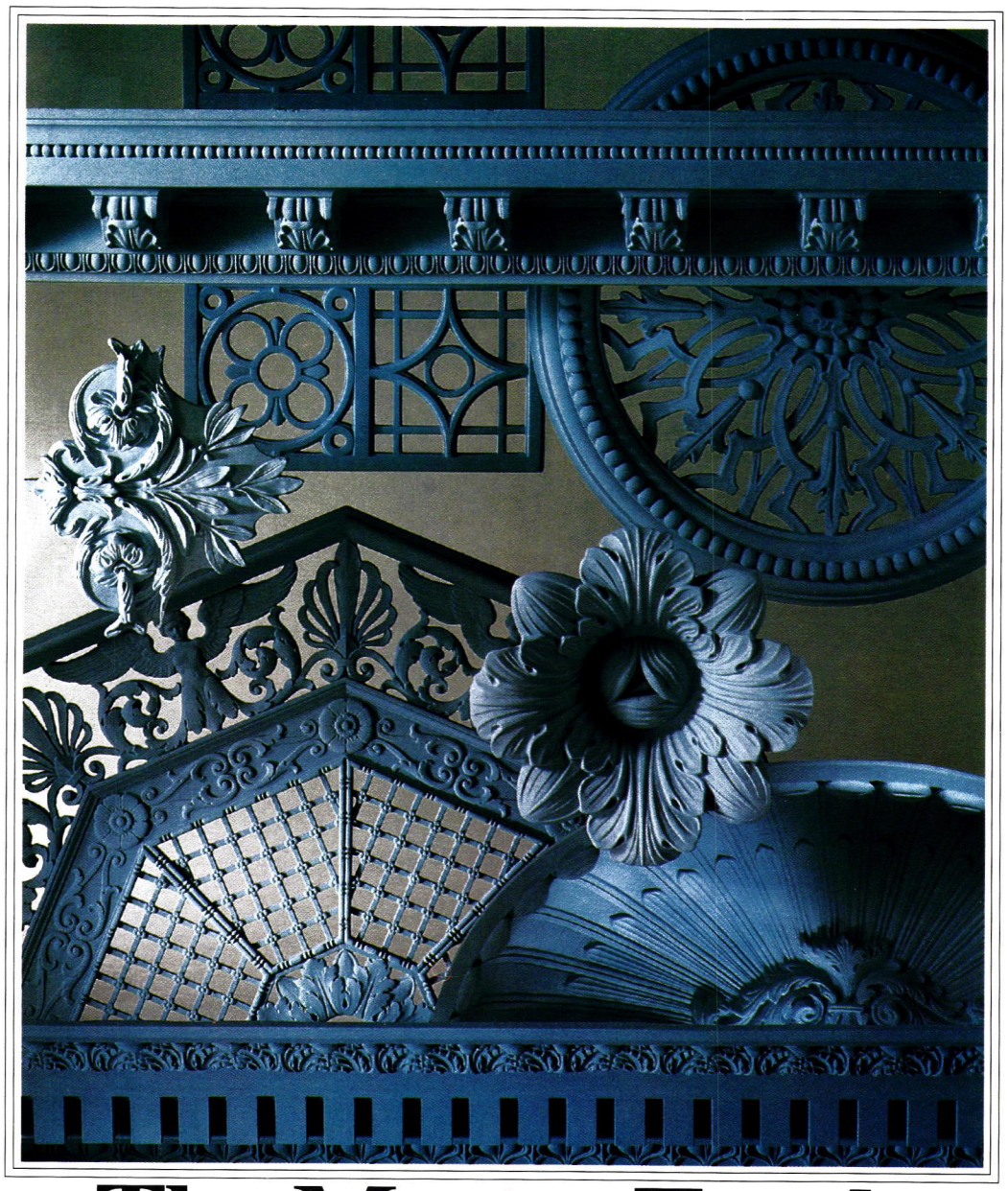

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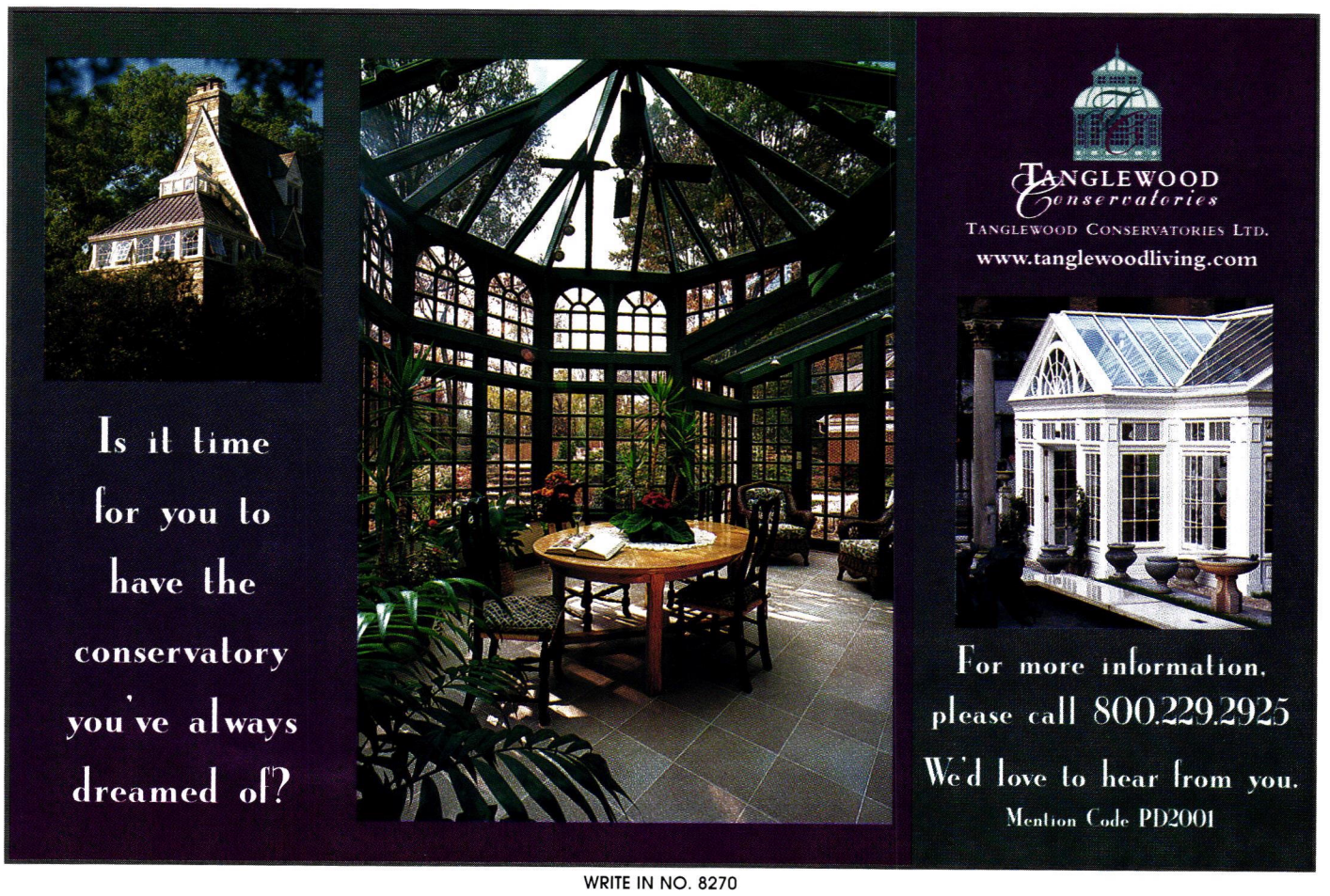


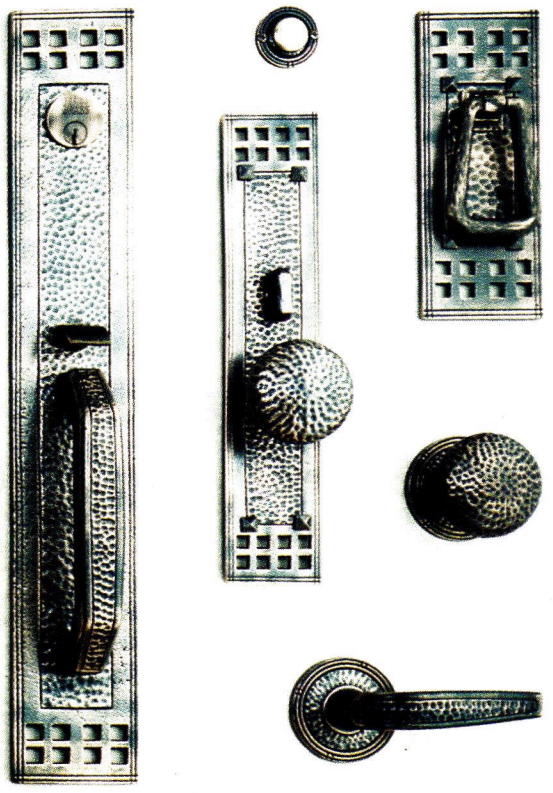
WRITE IN NO. 8270

HISTORICAL PRODUCTS SHOWCASE

Kingsland Co. Doors
860-542-6981; Fax: 860-542-1752
www.kingsland-shutters.com
Norfolk, CT 06058

Manufacturer of custom-designed entryways: doors, jambs & thresholds in Honduras mahogany; single & insulated glass, true-divided lites, leaded-glass sidelites & transoms; screen & storm doors & removable panel-screen porch enclosures with an option for glass. *Write in No. 4574*

◆ ◆ ◆



Kolson supplies a wide variety of Arts & Crafts-style door hardware.

Kolson, Inc.
516-487-1224; Fax: 516-487-1231
www.kolson.com
Great Neck, NY 11023

Supplier of kitchen & bath elements & accessories: tubs, toilets, bidets, sinks, faucets & medicine cabinets; window, transom, decorative door & cabinet hardware. *Write in No. 3760*

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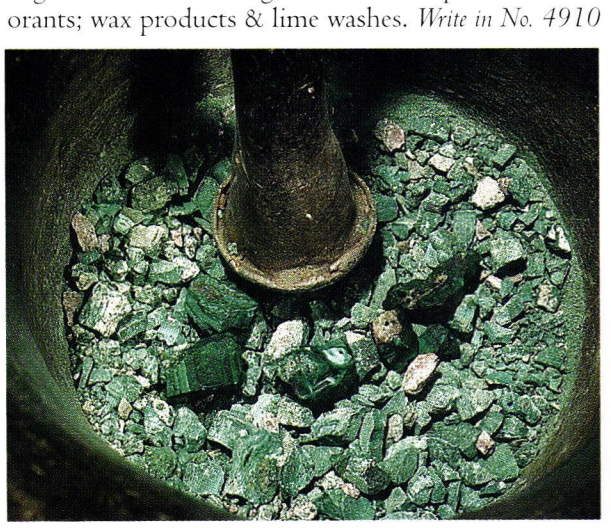
Kremer Pigments, Inc.
212-219-2394; Fax: 212-219-2395
www.kremerpigments.com
New York, NY 10012

Importer & distributor of plaster, glue & more than 500 natural & manufactured pigments: master & beginner classes in scagliola; Venetian plaster & colorants; wax products & lime washes. *Write in No. 4910*



Kremer Pigments carries natural coloring agents and pigments that have been in use for thousands of years.

Kronenberger & Sons Restoration
860-347-4600; Fax: 860-343-0309
www.kronenbergersons.com
Middletown, CT 06457

Restoration firm: brownstone, brick & fieldstone restoration; house moving; matches existing moldings, trim, paneling & more; wood carvings; mortar matching; cleaning & repointing. *Write in No. 536*

Kronenberger & Sons completely restored and repointed the exterior of the Mark Twain House in Hartford, CT.

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Lantern Masters, Inc.
818-706-1990; Fax: 818-706-1988
www.lanternmasters.com
Westlake Village, CA 91362

Custom designer & fabricator of lanterns: traditional, Tudor, French, Tuscan, Asian, contemporary, Provençale & other styles; antique reproductions; chandeliers; interior & exterior wall sconces & pendants; exterior post & pilaster fixtures; upper-end residential & commercial. *Write in No. 267*

This 1920s Spanish Revival fixture is a reproduction fabricated by Lantern Masters.

◆ ◆ ◆

Lawler Foundry Corp.
205-595-0596; Fax: 205-595-0599
P.O. Box 320069
Birmingham, AL 35232

Nationwide supplier of more than 1,200 ornamental metal components in cast iron & artistic steel forgings: Victorian style; newel posts, balusters, panels, continuous designs, finials & more; for fences, gates, railings, stairs, windows & more; complete catalog free to the trade, $10 to others. *Write in No. 271*

Lawler Foundry produced this finely detailed metal finial.

◆ ◆ ◆

Liberty Ornamental Products
800-636-5470; Fax: 419-636-2365
www.briandiecast.com
Bryan, OH 43506

Fabricator of ball tops, caps, spears, shoes & more: for fences, gates & ornamental metal assemblies; parts in sizes from ¼ to 4 in.; in #3 zinc with a non-rusting pewter finish; plastic ornamental components. *Write in No. 5340*

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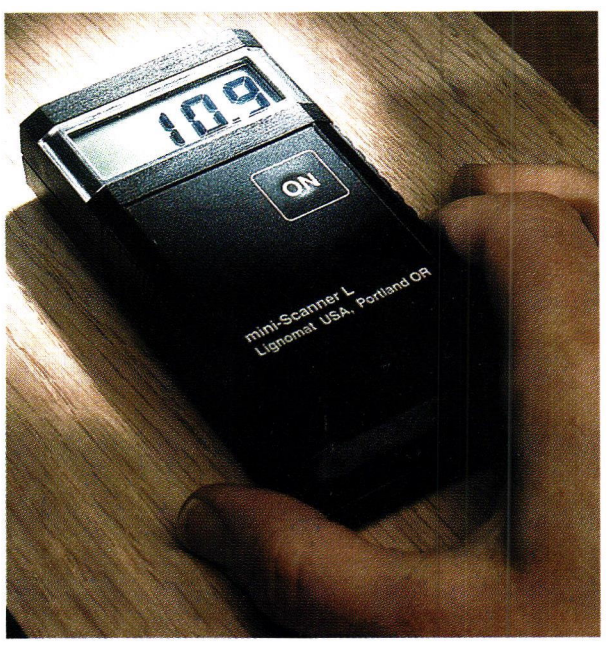
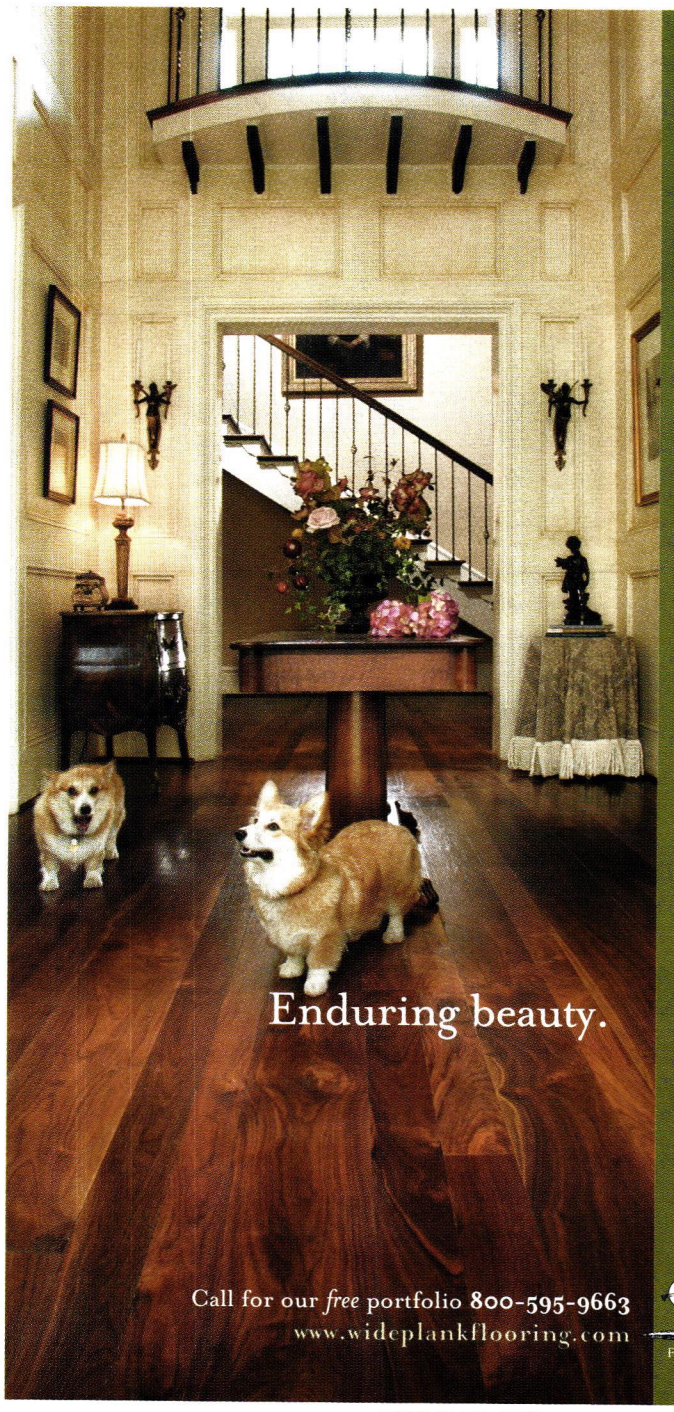
Lignomat USA, Ltd.
800-227-2105; Fax: 503-255-1430
www.lignomat.com
Portland, OR 97230

Manufacturer of hand-held wood-moisture meters: with or without pins, in-line moisture detector for wood flooring manufacturers. *Write in No. 1120*



Lignomat's mini-Scanner L is a pinless meter that measures moisture in hardwood floors.



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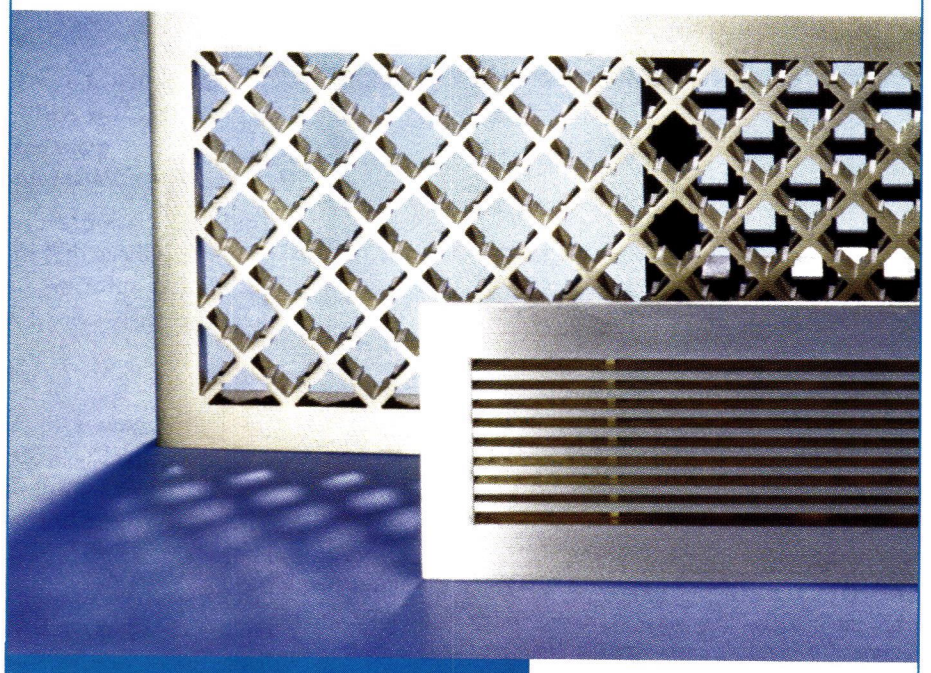

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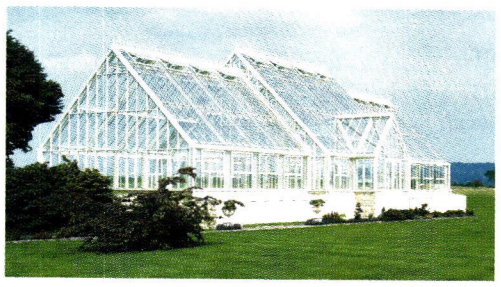

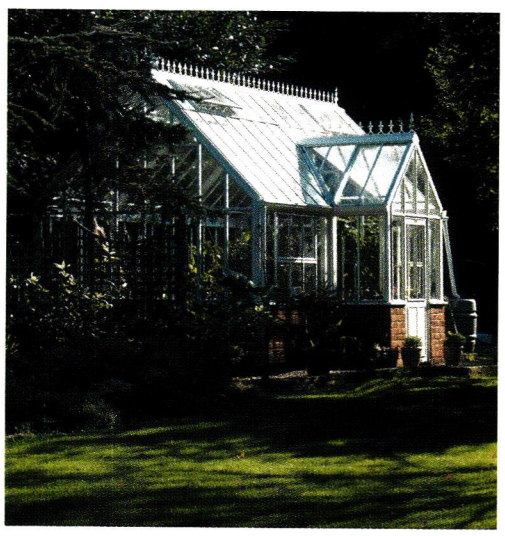

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HISTORICAL PRODUCTS SHOWCASE

A personal insignia, lions and ionic columns made a statement for the owners of this mantel, custom carved by Limestone Concept.

Limestone Concept, Inc.
310-278-9829; Fax: 310-278-9651
www.limestoneconcept.com
Los Angeles, CA 90035

Custom fabricator, importer & distributor of hand-carved antique mantels, fireplaces & more: fountains, columns, balustrades, capitals, ornament, planters & urns, benches, garden statuary & sculpture; French limestone slabs & tile; antique terra cotta, natural-stone flooring & quarry tile; marble & carved stone. *Write in No. 5390*

◆ ◆ ◆

Luminaria Lighting, Inc.
800-638-5619; Fax: 509-456-8298
www.luminaria.com
Spokane, WA 99201

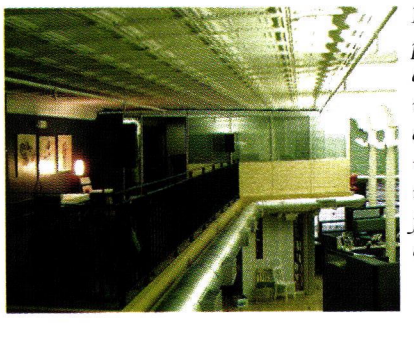
Supplier of antique lighting fixtures from the late 1800s to 1940s: chandeliers, sconces, table lamps & lanterns; restoration services; signature line of reproduction fixtures & custom designs; all available online; full-color reproduction catalog. *Write in No. 336*

This Art Nouveau chandelier, featuring multi-colored glass and grotesques, was supplied by Luminaria.

◆ ◆ ◆

M-Boss, Inc.
866-88M-BOSS; Fax: 216-623-0908
www.mbossinc.com
Cleveland, OH 44125

Manufacturer of tin ceilings: antique/classic reproduction, contemporary & custom-embossed metal panels; nail-up or easy-access suspended ceiling panels. *Write in No. 340*



M-Boss replicated pieces of the existing ceiling for this restoration project, allowing the client to replace damaged and missing pieces at a fraction of the cost of an entire replacement.

National Association of Home Builders
202-266-8111; Fax: 202-266-8104
www.buildersshow.com
Washington, DC 20005

Trade association: represents building industry; helps promote polices that make housing a national priority; industry information, education, research & technical expertise; since 1942. *Write in No. 1189*

◆ ◆ ◆

New Dimension Homes, Inc.
207-426-7450; Fax: 207-426-8837
www.ndhpostandbeam.com
Clinton, ME 04927

Designer of paneled post-&-beam homes: glulam beams; western red cedar; detailed blueprints; easy to build; pre-cut; 30-year architectural shingles, large overhangs, ice & weather shield & more. *Write in No. 1194*

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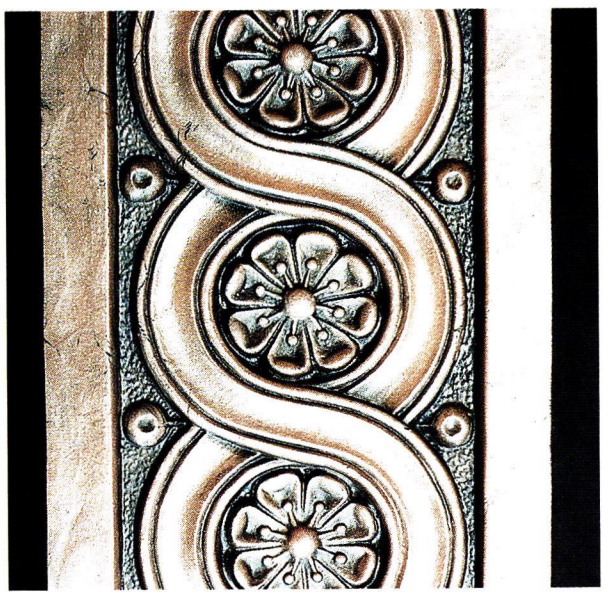

Guilloche, a terra-cotta tile with deeply sculpted elements, is available from Nocera Art Tile.

Nocera Art Tile
570-729-7946; Fax: 570-729-7317
www.art-tile.com
Milanville, PA 18443

Custom fabricator of tile: wall, floor, fireplace, border, trim & decorative; embossed/relief, hand painted & glazed; most clay & glaze formulations; Victorian, Arts & Crafts & traditional; colors range from naturals to polychrome; murals on tile, canvas & other surfaces. *Write in No. 6100*

◆ ◆ ◆

North Prairie Tileworks
612-871-3421; Fax: 612-871-2923
www.handmadetile.com
Minneapolis, MN 55408

Manufacturer of custom tile in a myriad of colors, shapes & sizes: hand painted & cut; custom color matching; reproductions of antique tile; wall, fireplace, pictorial mosaic, relief & geometric tile. *Write in No. 793*

Handmade tile from North Prairie Tileworks was used to create this unique fireplace.

Paint from The Old Fashioned Milk Paint Co. comes in powder form in Colonial and Shaker colors that can be used for both interior and exterior applications.

Old Fashioned Milk Paint Co., The
978-448-6336; Fax: 978-448-2754
www.milkpaint.com
Groton, MA 01450

Manufacturer of milk paint: 16 colors, including barn red, mustard, Lexington green, Federal blue, oyster white & pitch black; add water & mix to desired consistency; for use as wash, full-cover coat or for stenciling. *Write in No. 5880*

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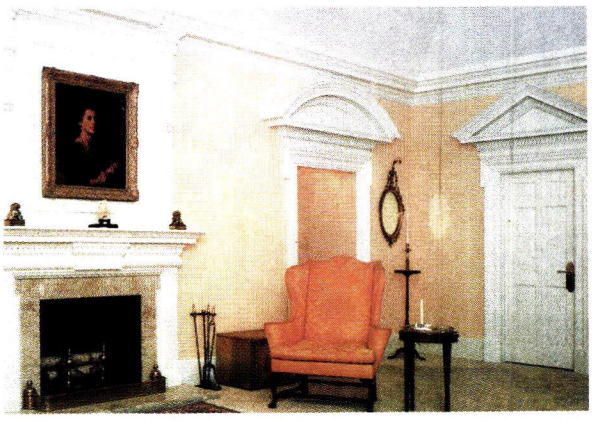
Old World Mouldings, Inc.
631-563-8660; Fax: 631-563-8815
www.oldworldmouldings.com
Bohemia, NY 11716

Manufacturer of hardwood moldings & millwork: custom profile matching; ornamentally embossed hardwood moldings; more than 400 profiles in stock, several thousand total; priming for all profiles; all wood species; full catalog available online & in print. *Write in No. 274*



The moldings and millwork from Old World Moulding are the details that create the Classical character of this interior.

◆ ◆ ◆

Old World Stoneworks
800-600-8336; Fax: 214-826-3227
www.oldworldstoneworks.com
Dallas, TX 75206

Manufacturer of cast-stone mantels & architectural elements in the old-world style: standard & custom designs; adaptable to all sizes & styles of masonry & pre-fabricated fireboxes; free installation video with purchase; free color catalog. *Write in No. 282*

The cast-stone and carved Brentwood, manufactured by Old World Stoneworks, stands 42 in. tall; the trapezoidal overmantel, model #10, is optional.

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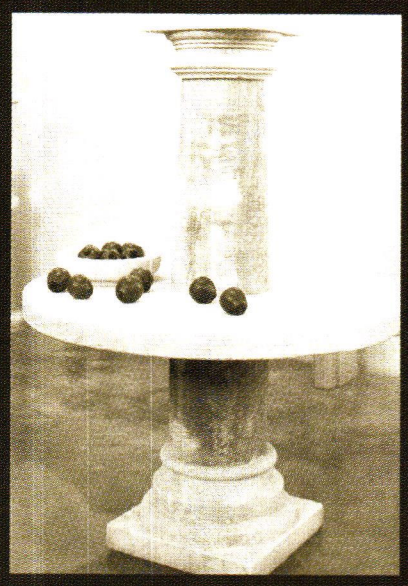

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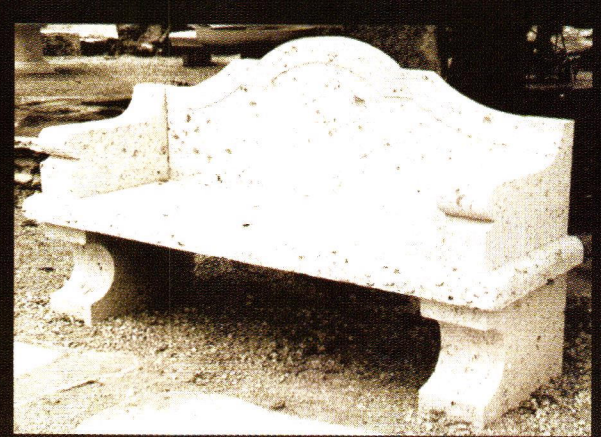

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Pagliacco Turning & Milling
415-488-4333; Fax: 415-488-9372
www.pagliacco.com
Woodacre, CA 94973

Manufacturer of custom & stock woodturnings & millwork: columns, porch posts, balusters, newels, finials, brackets, railings & more; historical restorations & custom projects. *Write in No. 7070*

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Paul Downs Cabinetmakers
610-664-9902; Fax: 610-664-9997
www.pauldowns.com
Bridgeport, PA 19405

Custom fabricator of Arts & Crafts-style furniture & cabinetry: mortise-&-tenon joinery; Frank Lloyd Wright-inspired designs. *Write in No. 1152*

Custom dining furniture, including the round Fairmount Table, is a specialty of Paul Downs Cabinetmakers.

◆ ◆ ◆

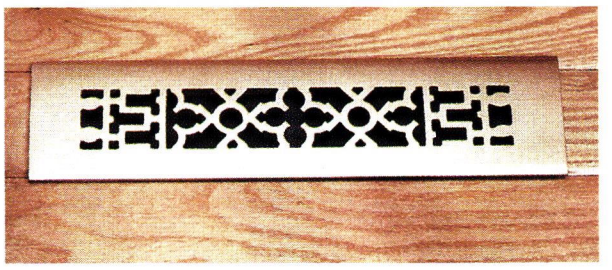
Private Garden Greenhouse Systems
413-566-0277; Fax: 413-566-8806
www.private-garden.com
Hampden, MA 01036

Designer, manufacturer & installer of English Victorian greenhouses & custom glass architecture: hobby greenhouses, garden centers & pool enclosures; consultation & renovation services. *Call for more information.*

Private Garden's Hartley Botanic Victorian greenhouses are all hand crafted and powder coated.

Reggio Register Co., Inc.
978-772-3493; Fax: 978-772-5513
www.reggioregister.com
Ayer, MA 01432

Manufacturer of decorative & functional registers & grilles: cast iron, cast brass, cast aluminum & solid wood; for forced-air-heating, air-conditioning & high-velocity systems; more than 500 styles & sizes; many adapted from traditional Victorian designs. *Write in No. 5810*

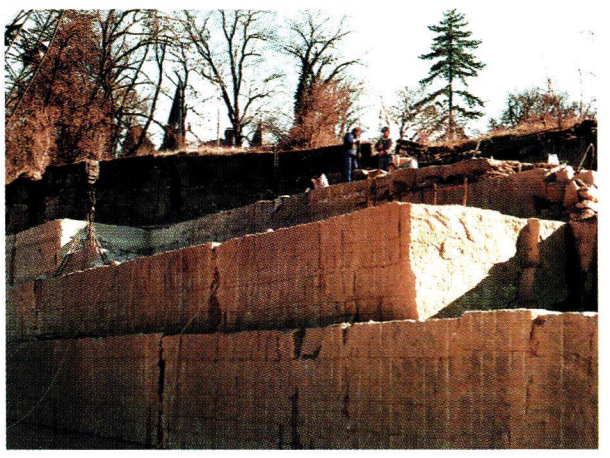


In cast iron or brass, this 400 series grille from Reggio Register is designed for a 2¼-in. opening.

◆ ◆ ◆

Rossi USA Corp.
708-386-0183; Fax: 708-386-0186
1750 S. Des Plaines Ave.
Forest Park, IL 60130

Quarrier & fabricator of more than 26 types of French limestone: U.S. division of French company; dimensional, cut, paving tile, Old Castle stones & slabs. *Write in No. 392*



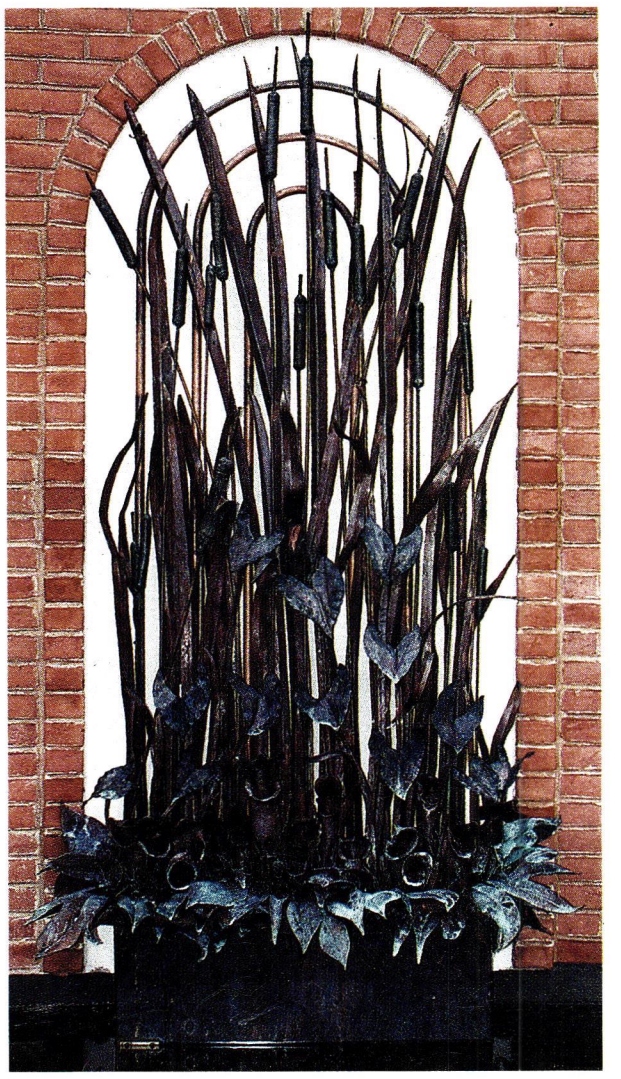
This French limestone quarried by Rossi USA is destined to become pavers, flooring or fountains.

◆ ◆ ◆

Roy Electric Lighting Co.
800-366-3347; Fax: 908-317-4629
www.royelectric.com
Westfield, NJ 07090

Manufacturer of lighting fixtures: sconces, pendants, flush fixtures & glass shades; custom capabilities; restoration & antique fixtures; wall- & post-mounted & porch lighting; Colonial, Victorian, Turn of the Century, Art Deco/Moderne & Arts & Crafts/Mission/Prairie styles. *Write in No. 430*

This model #OD-2 exterior fixture with glass shade model #18 was manufactured by Roy Electric.



The American Marsh fountain, in St. Louis, MO, is 4x8x2 ft. and was custom fabricated by Schiff Architectural Detail in wrought iron, bronze and copper.

Schiff Architectural Detail
617-887-0202; Fax: 617-887-0127
www.schiffarchitectural.com
Chelsea, MA 02150

Foundry, forge & fabrication shop: custom castings & non-ferrous forge work; machine-shop service; rubber molding & pattern work; historical restoration & refurbishment; custom large-scale bowl fountains, lamps & lampposts, garden benches, pipe-&-ball fencing, gazebos & arbors. *Write in No. 7730*

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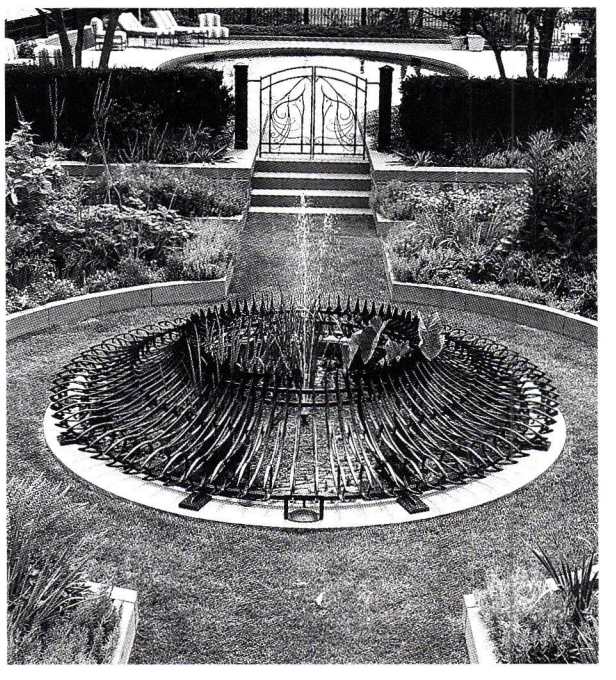

Schwartz's Forge custom fabricated this hand-wrought iron fountain.

Schwartz's Forge & Metalworks, Inc.
315-841-4477; Fax: 315-841-4694
P.O. Box 205; 2695 Rte. 315
Deansboro, NY 13328

Custom fabricator of architectural metalwork for 25 years: straight, spiral & curved stairs; railings, balusters & balustrades, newel posts & more; ornamental gates & fencing, doors & fountains; forged bronze, Monel & steel & stainless steel. *Write in No. 1218*

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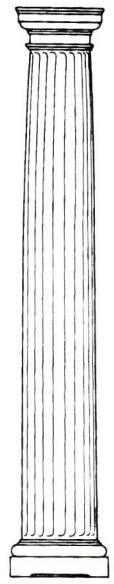

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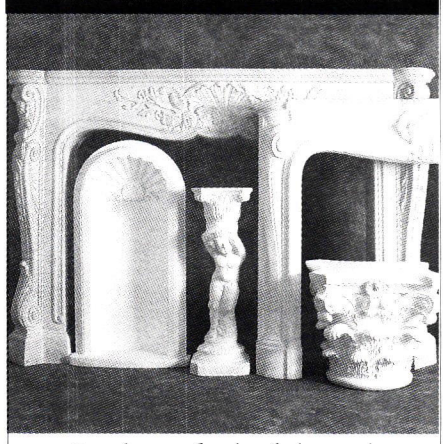

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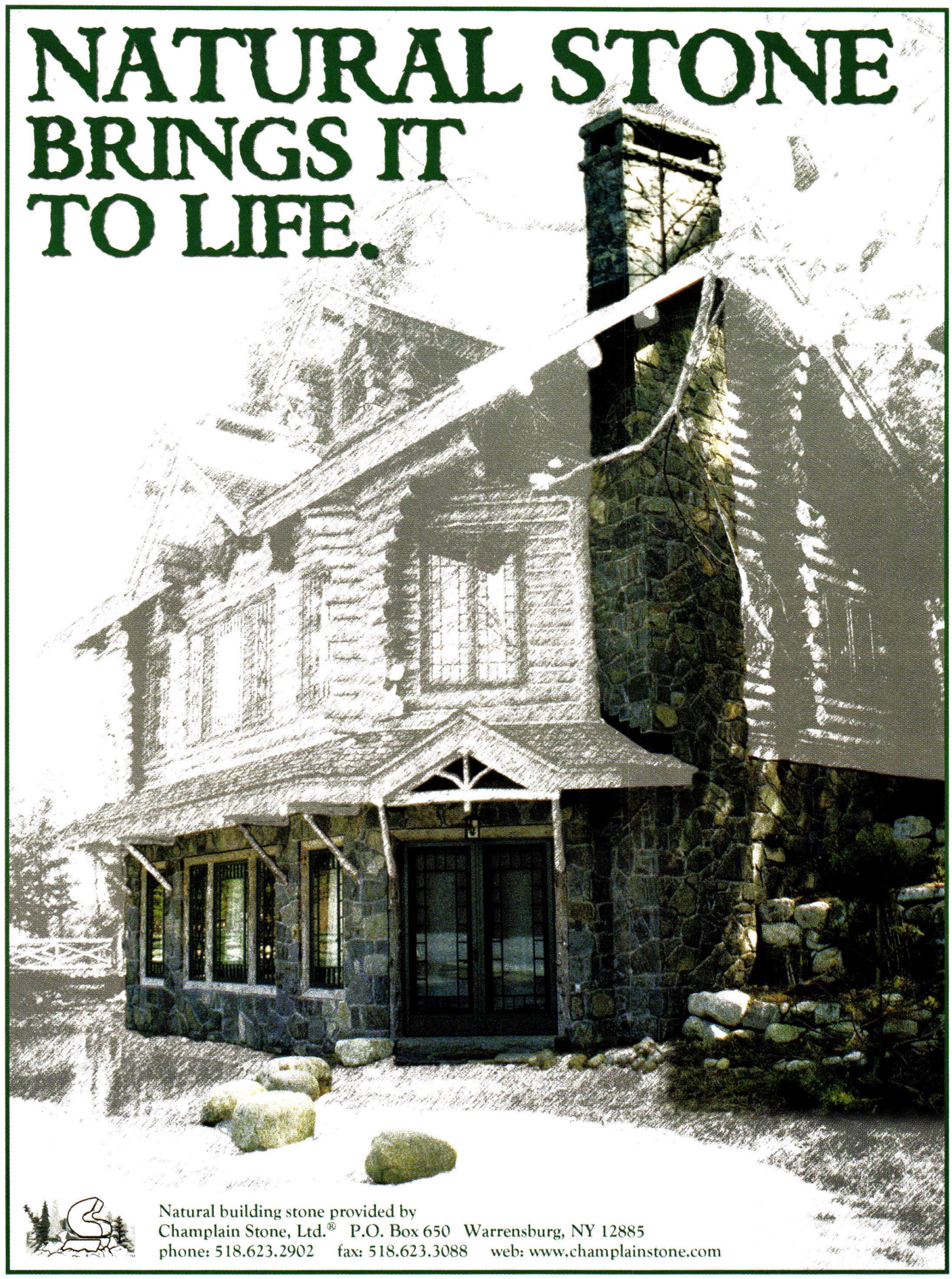

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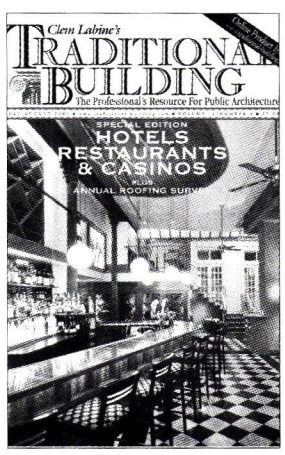

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www.selectmillwork.com
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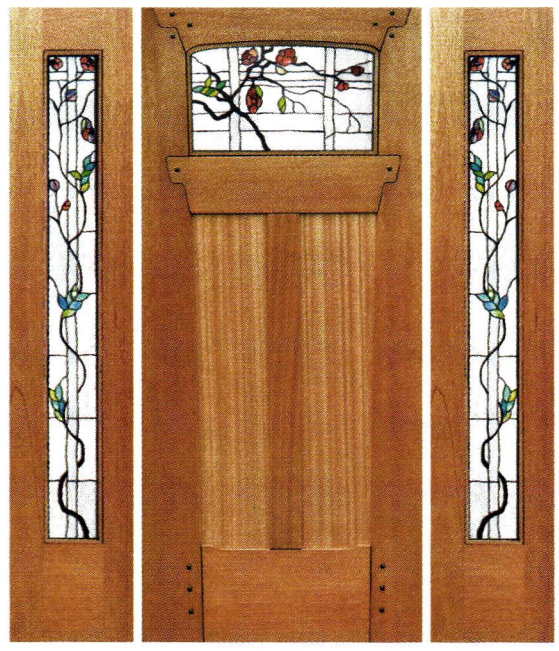
832-644-2444; Fax: 832-644-2499
www.beveldoor.com
Humble, TX 77346

Manufacturer of stained- & leaded-glass doors, paneled doors, sidelites, transoms & entryways: Craftsman, Victorian & Southwest styles; custom stained & leaded glass; mostly mahogany; doorknobs, hinges, lever handles, locksets & thresholds; brass & plated brass. *Write in No. 857*



This Craftsman door from Sheppard Doors & Glass is from the company's Tiffany Door Set.

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South County Post & Beam
800-471-8715; Fax: 401-783-4494
www.scpb.net
West Kingston, RI 02892

Full-service designer & builder of timber frames since 1976: timber-frame & stress-skin-panel packages nationwide; general contracting regionally. *Write in No. 134*

South County Post & Beam built this 56x32-ft. timber-frame barn on the existing stone frame of a building that had been torn down.

Steven Handelman Studios
805-962-5119; Fax: 805-966-9529
www.stevenhandelmanstudios.com
Santa Barbara, CA 93103

Manufacturer of hand-forged ornament, lighting & firescreens in iron: more than 250 choices of UL-certified lighting; incandescent, low voltage, HID & gas lamps; street lighting; Early California & European styles; gates, furniture, registers & grilles in wrought iron & steel; 50 styles of wrought-iron firescreens built in with doors or freestanding; stock & custom. *Write in No. 483*

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www.stonemagic.com
Dallas, TX 75217

Manufacturer & distributor of easily installed mantels with the look & feel of cut limestone: cast stone & marble; stock & custom; traditional, French & modern styles. *Write in No. 9067*

Cast-stone mantel designs from Stone Magic include the Bordeaux, which stands 42 in. tall.

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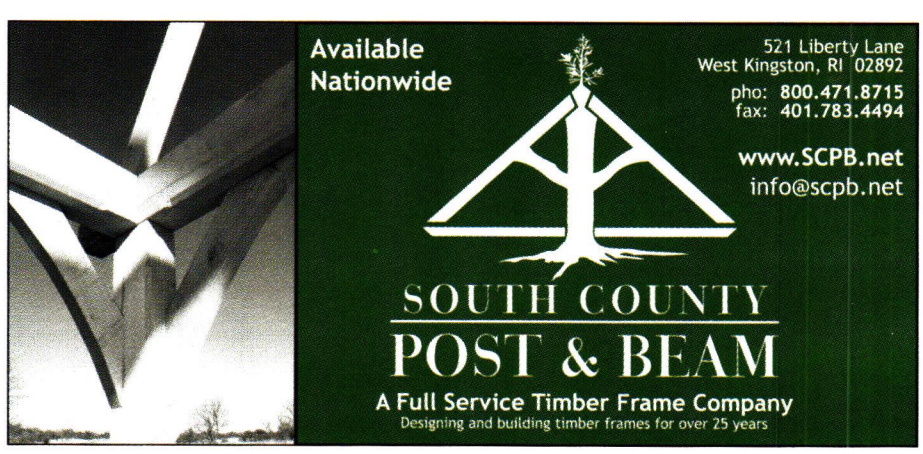

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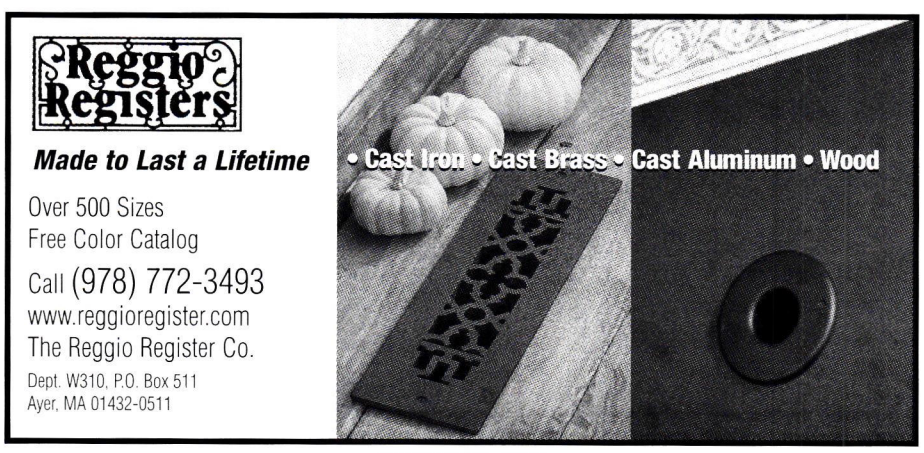

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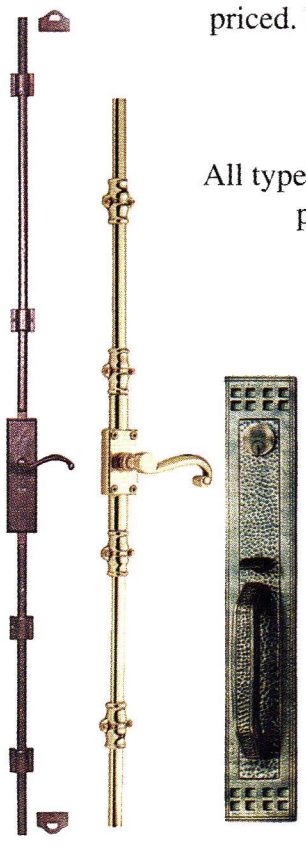

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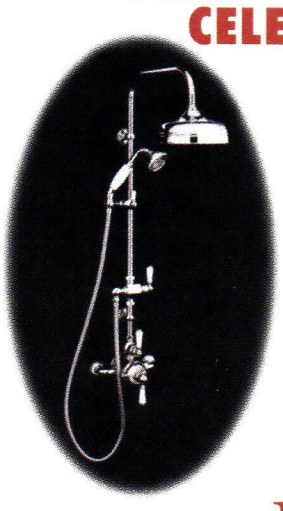

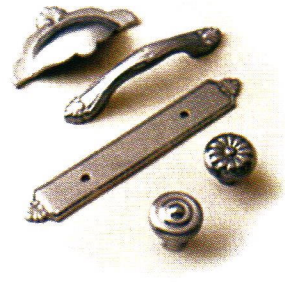

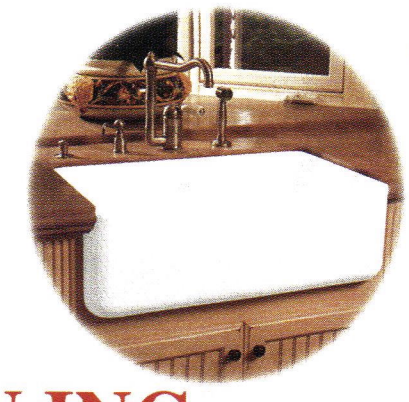

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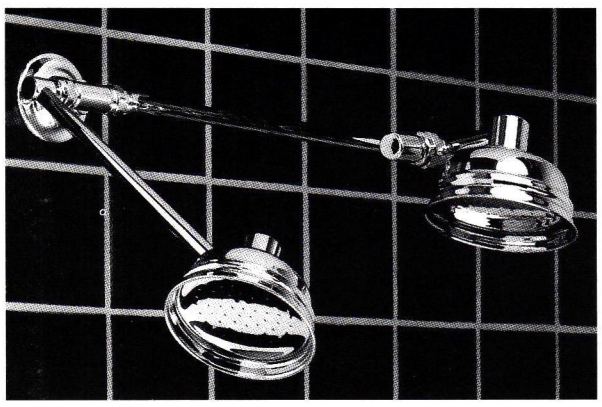

The Victoria & Albert dual shower assembly from Sunflower Showerhead features an anti-splash-styled showerhead and a triple-jointed arm.

Sunflower Showerhead Co.
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www.sunflowershowerhead.com
Seattle, WA 98108

Importer of traditional showerheads & fittings from Australia: deluge showerheads 8, 10 & 12 in. in dia. & 2-headed shower systems in solid brass; all architectural finishes; installation with custom-arm brackets or off-the-shelf plumbing fittings. *Write in No. 2940*

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Texas Carved Stone hand carved this ornamental element, which features deer in a forest setting.

The United Bateau, supplied by The Bath Works, is a reproduction Bateau V bath that is cast in resin and can be painted on the exterior, leaving a high-gloss white interior.

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www.thebathworks.com
Franklin, TN 37064

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www.rbwagner.com
Butler, WI 53007

Supplier of ornamental metalwork: handrail fittings, ornamental hollow balls & hemispheres from 1½ to 12 in. in dia.; tube bending for rail fabrication. *Write in No. 941*

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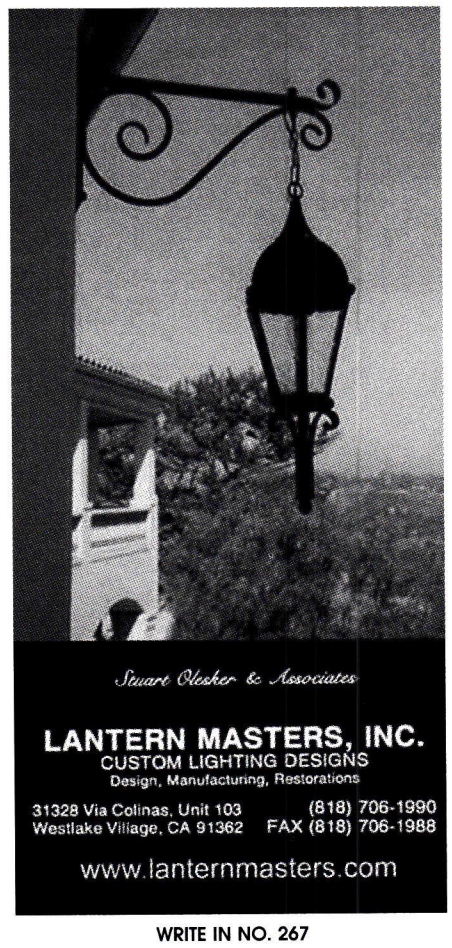

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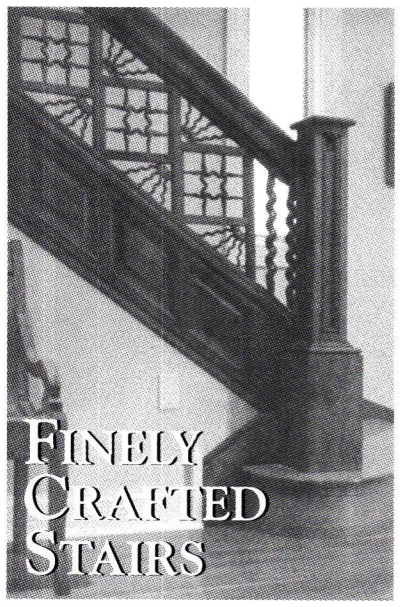

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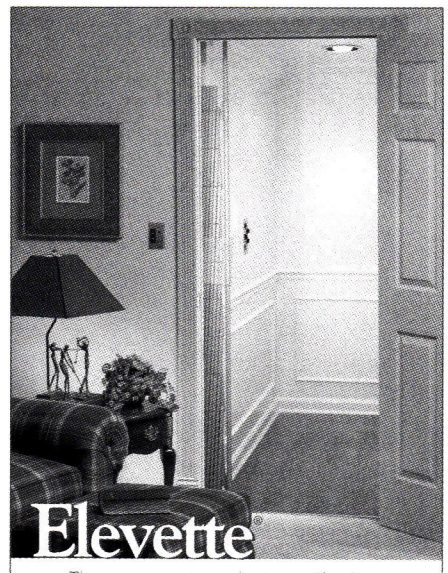

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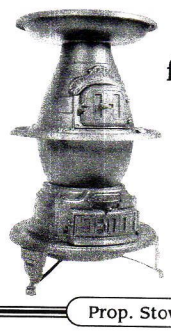

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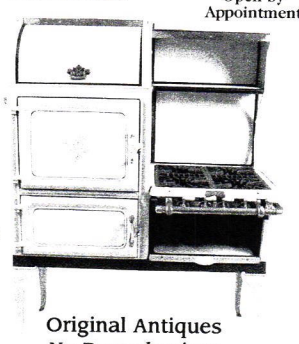

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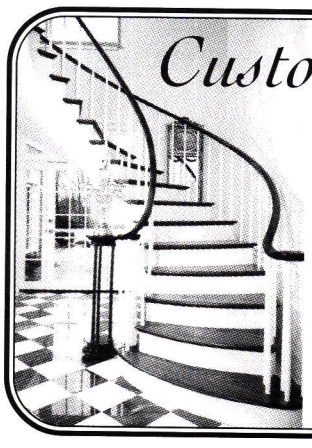

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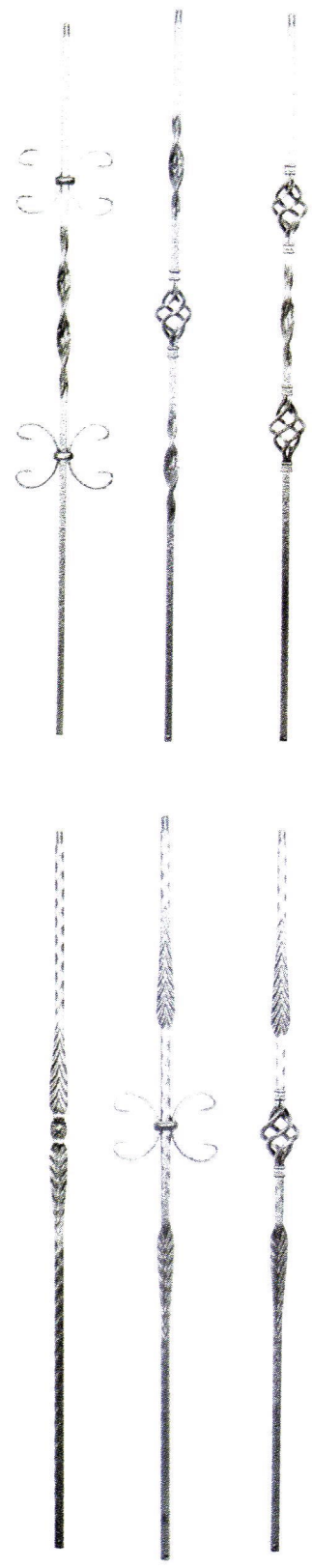

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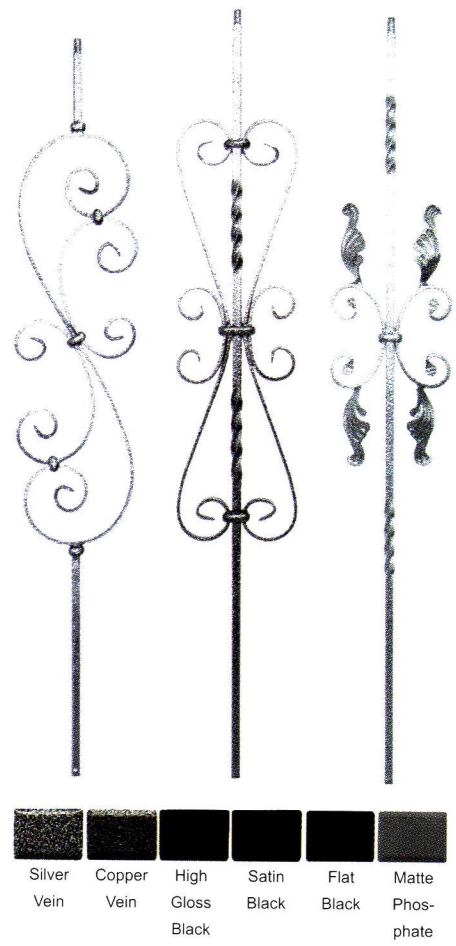

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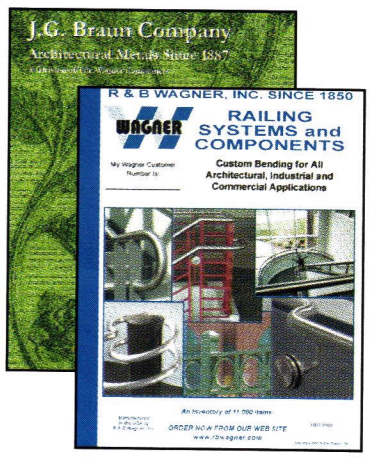

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Manufacturer of custom timber-frame structures: network of dealers provides local service; architectural & engineering staff facilitates communication with outside architects & designers; working with architect, firm will suggest framing solutions & joinery details & will size the frame members. *Write in No. 8370*

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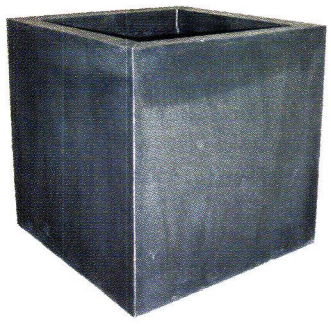

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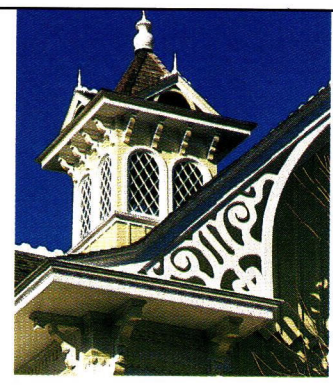

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HISTORICAL PRODUCTS SHOWCASE

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www.lordandburnham.com
High Falls, NY 12440

Manufacturer of Lord & Burnham line of conservatories, greenhouses, sunrooms, kits & garden accessories: aluminum & glass; custom & standard. *Write in No. 394*

Lord & Burnham structures made of aluminum and glass, such as this pool house, are available from Under Glass Mfg.

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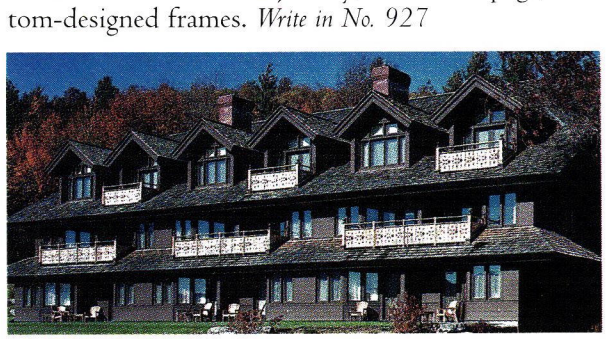
www.vermonttimberworks.com
Springfield, VT 05156

Manufacturer of timber frames & trusses for homes & commercial buildings: design, cutting & assembly of frames; fir, oak, pine & hemlock; glulam; traditional mortise-&-tenon joinery; hardwood pegs; custom-designed frames. *Write in No. 927*



Vermont Timber Works manufactured the timber frame and trusses for the new addition on the Trapp Family Lodge in Stowe, VT.

Victoriana East
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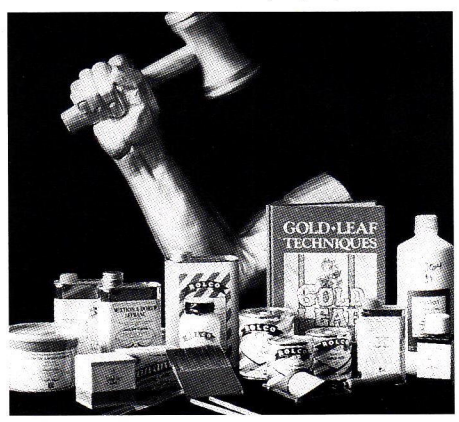

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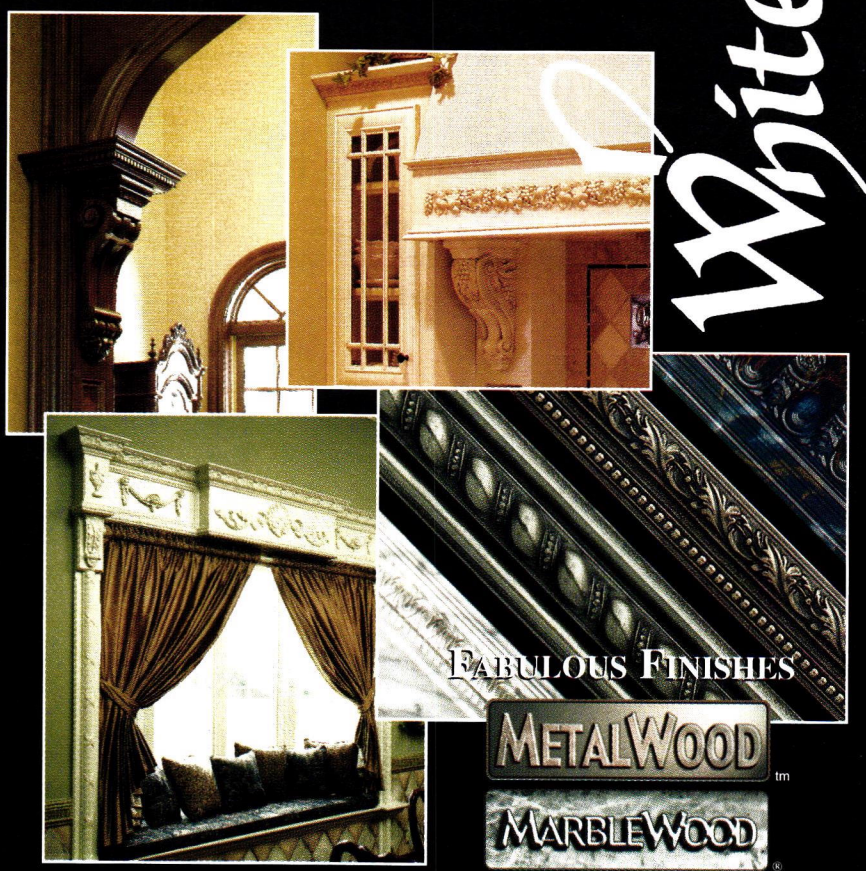

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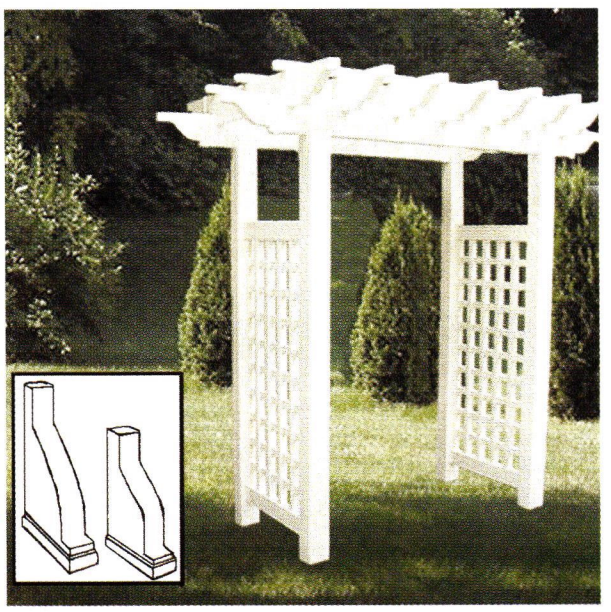

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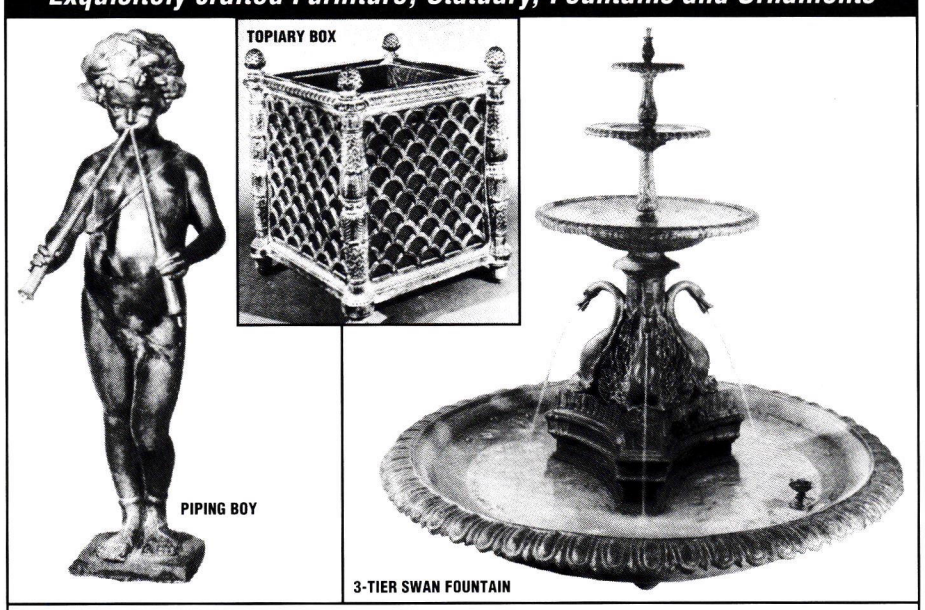

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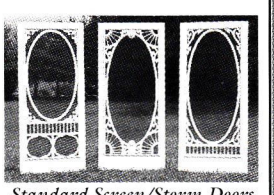

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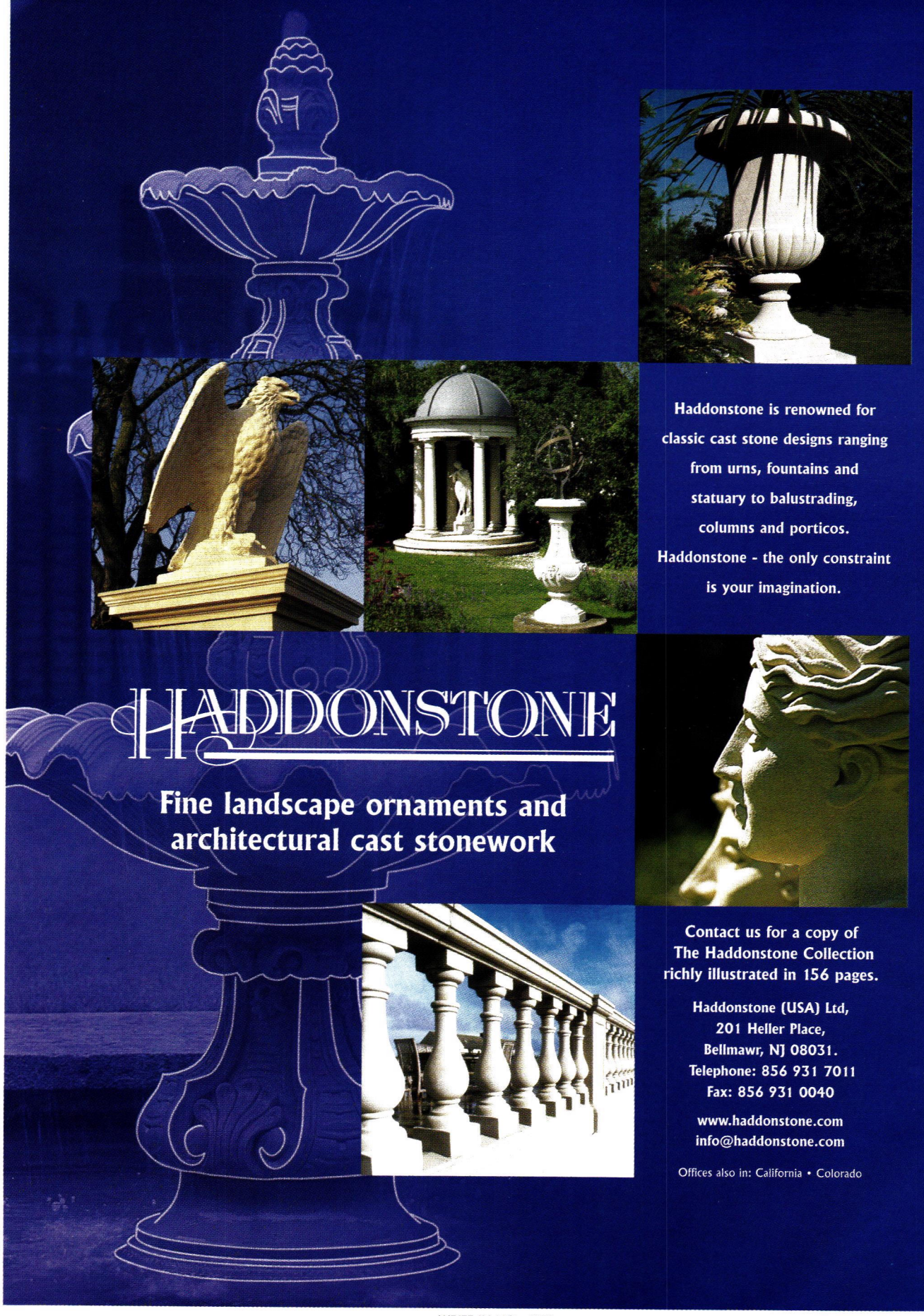

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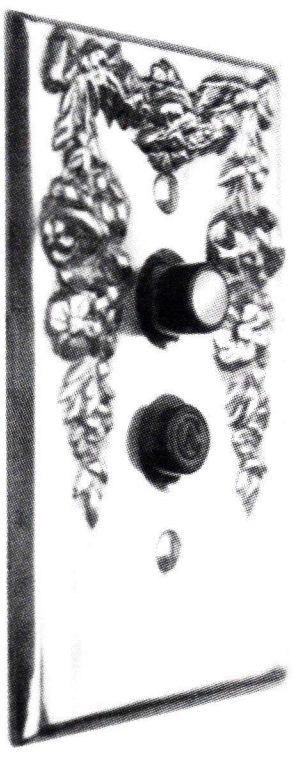

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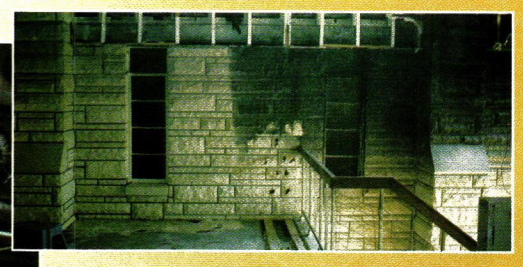

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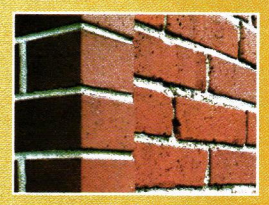

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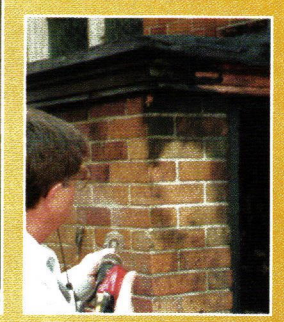

Upper Left: pollution cleaning, Top: fire restoration.
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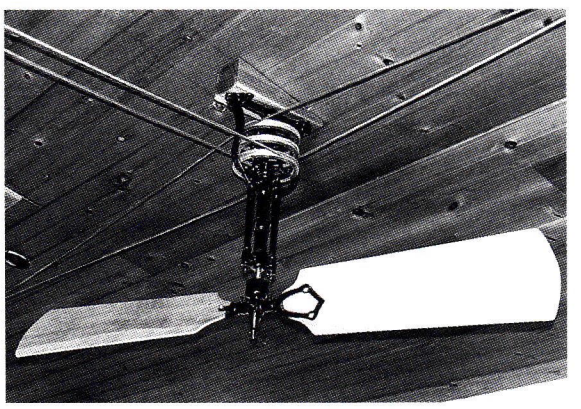

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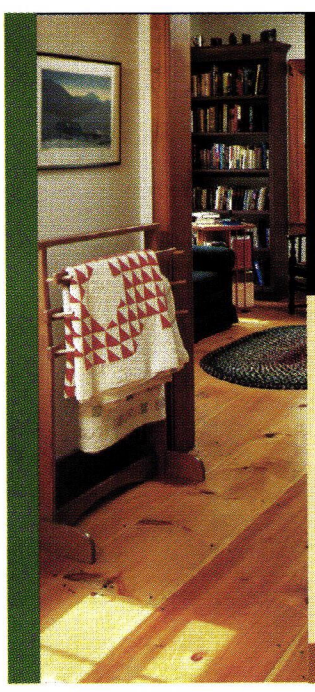

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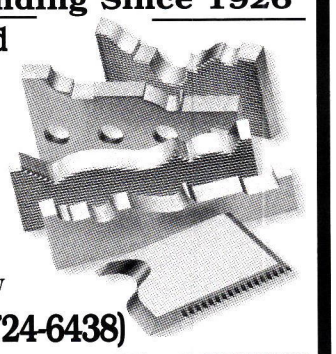

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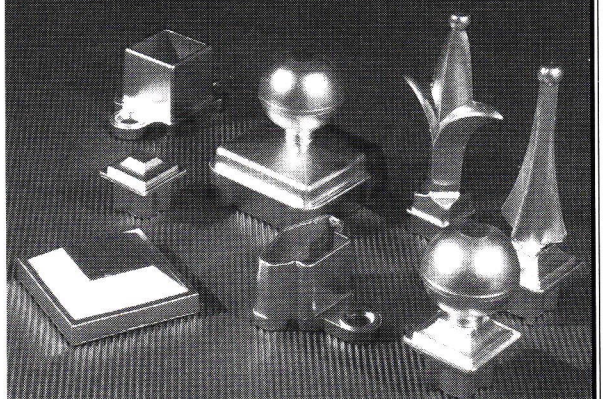

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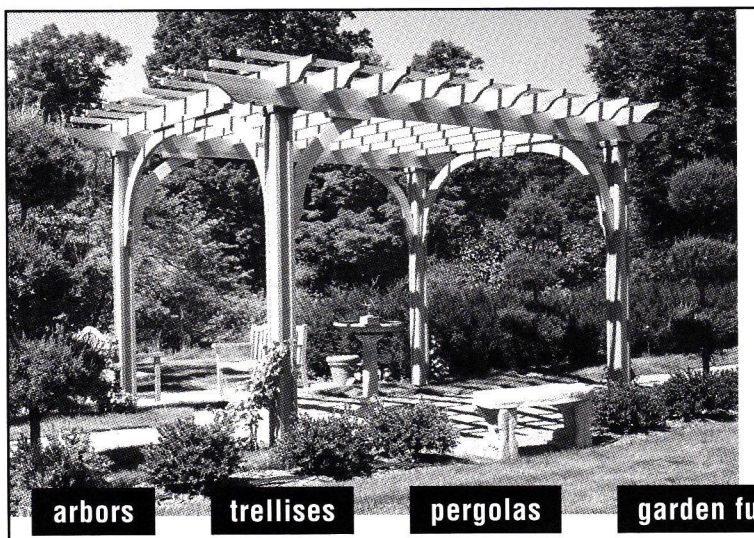

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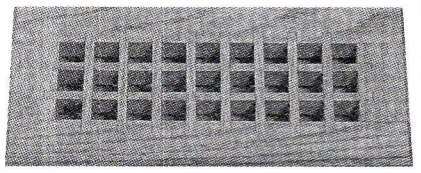

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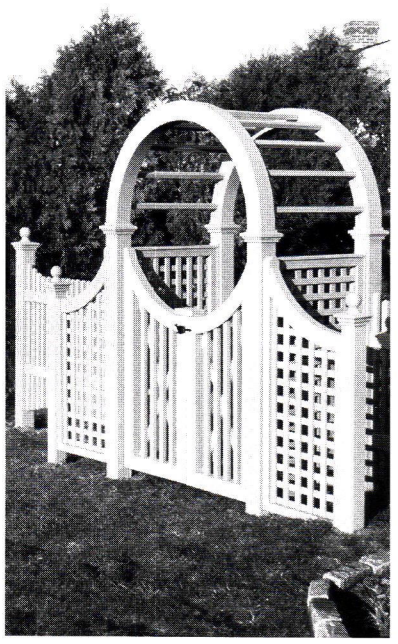

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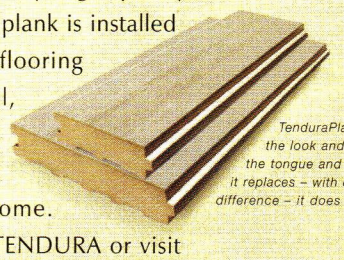

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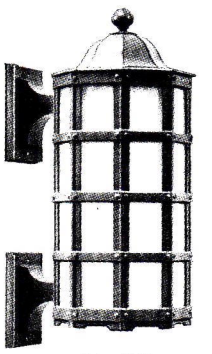

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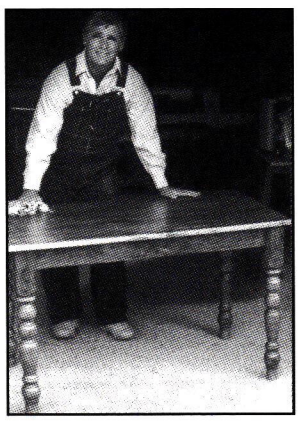

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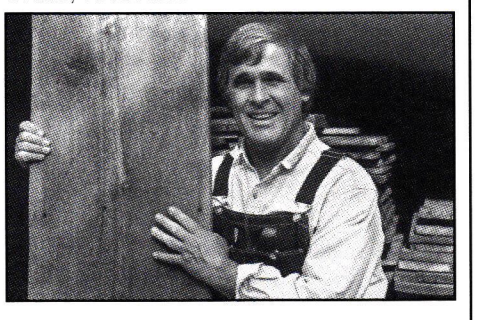

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For details on the awards program, judging criteria and submission requirements, fax queries to (718) 636-0750, write in no. 7777 on the Product Information Card in this issue or go to www.period-homes.com

The deadline for entries is November 15, 2004.

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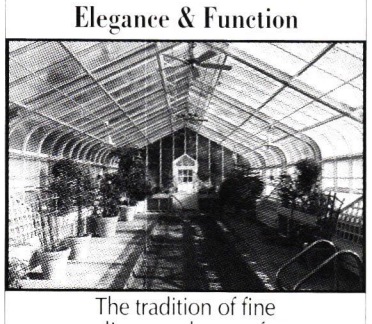

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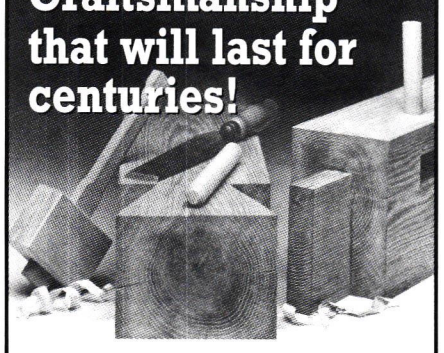

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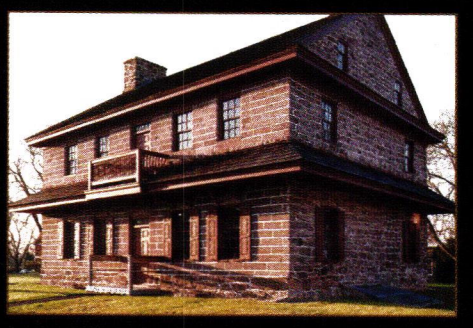

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The Greater Philadelphia Historic Home Show™ will focus on the restoration and renovation of 18th, 19th and 20th century structures, including new projects that reflect historic properties. In addition, it will feature the interior and exterior elements that complement the various styles and designs of our architectural heritage.

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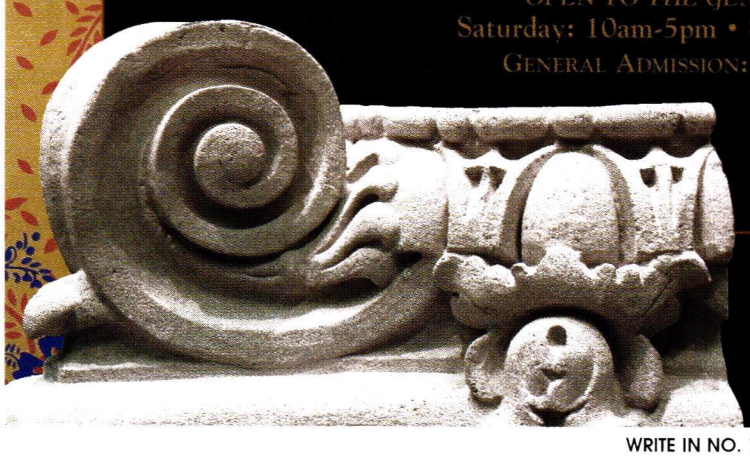

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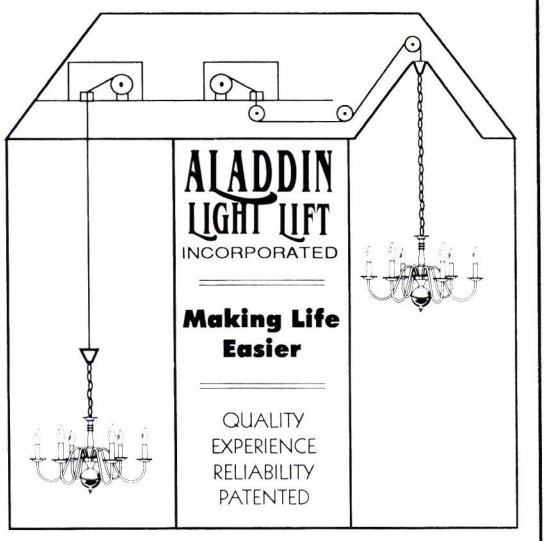

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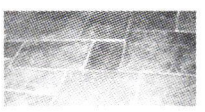

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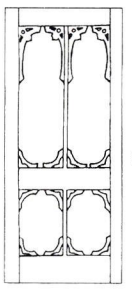

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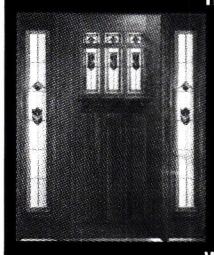

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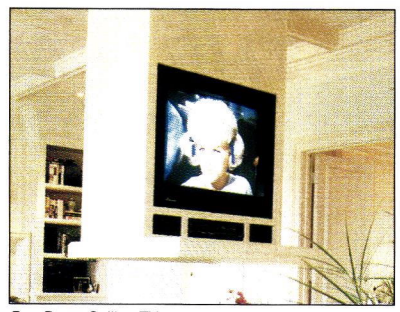
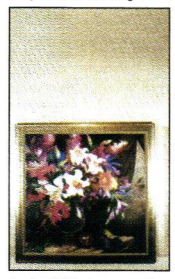
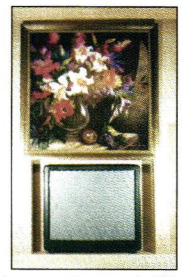


Pop-Down Ceiling TV



Invis-O-Trak



Pop-Up picture reveals-conceals TV
Horizontal sliding model available

End of Bed Pop-Up TV

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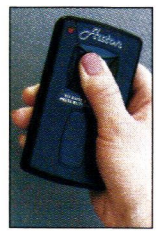

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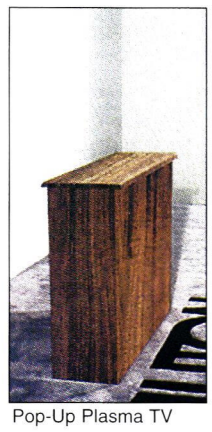
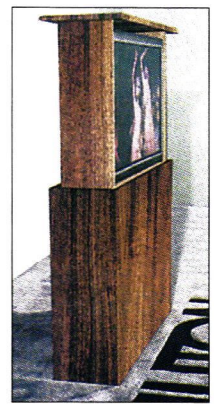
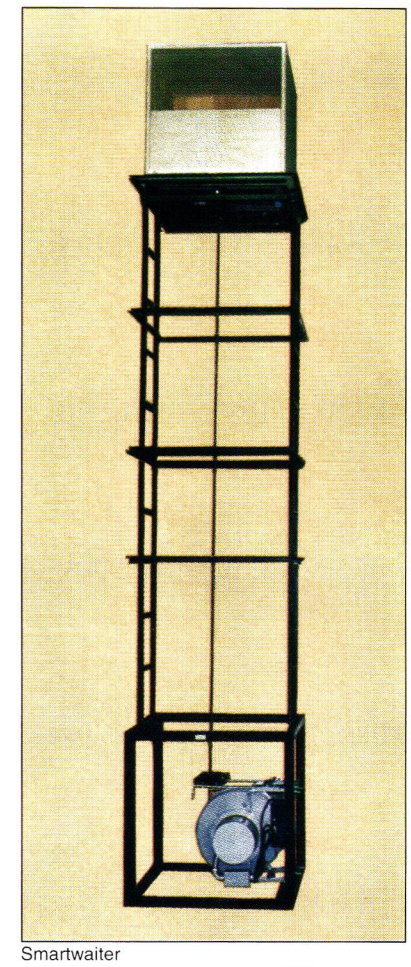


Pop-Up Plasma TV



Pop-Up Projector Lift



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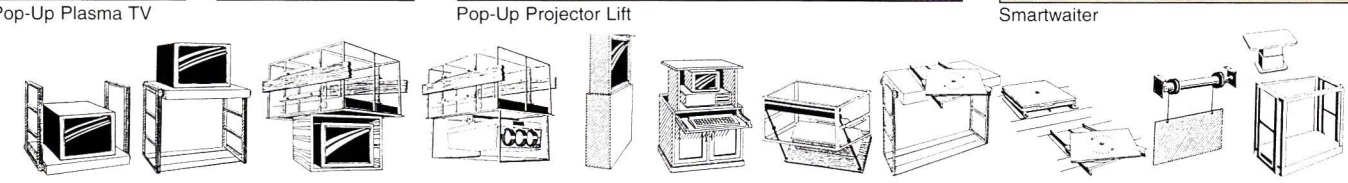

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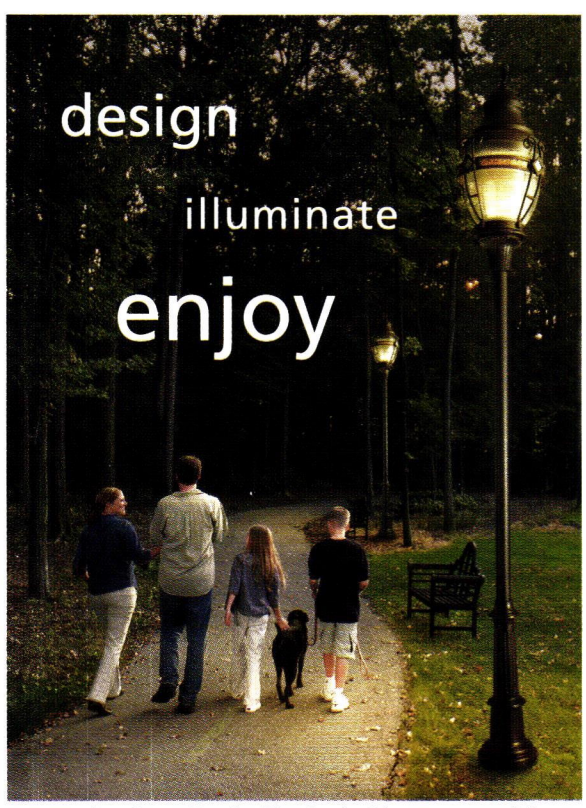

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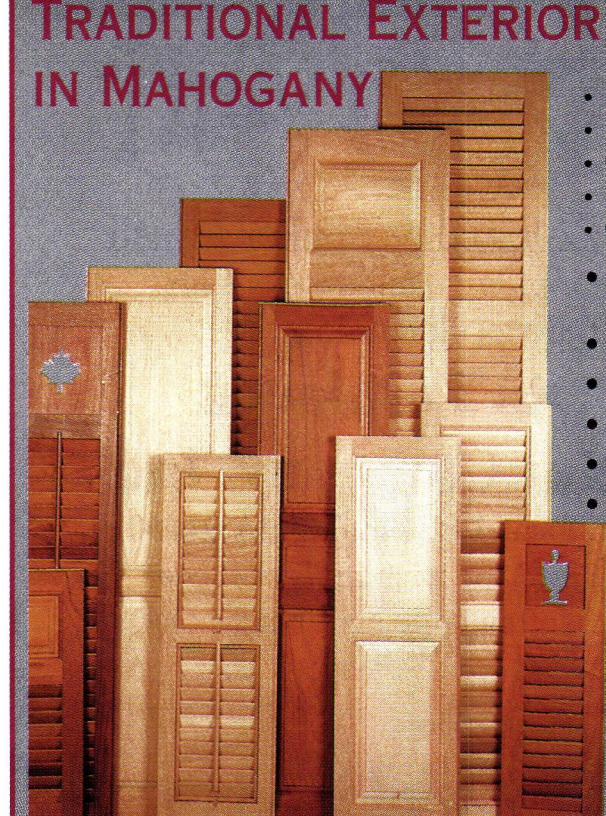

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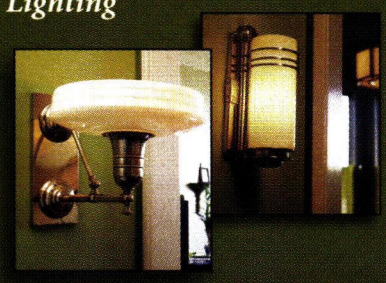

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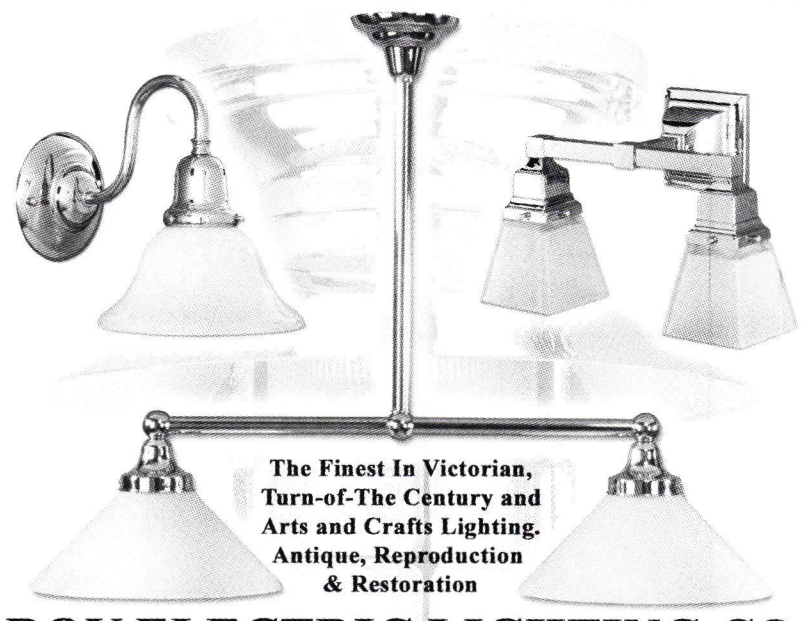

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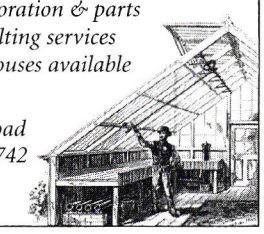

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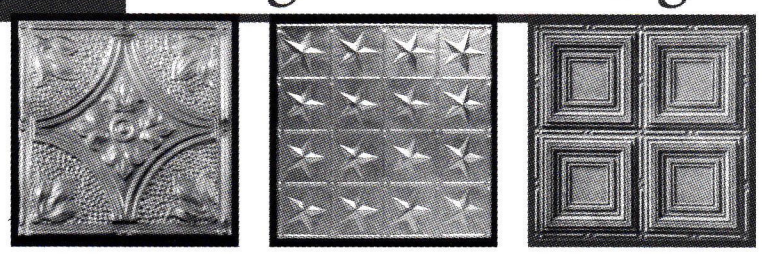

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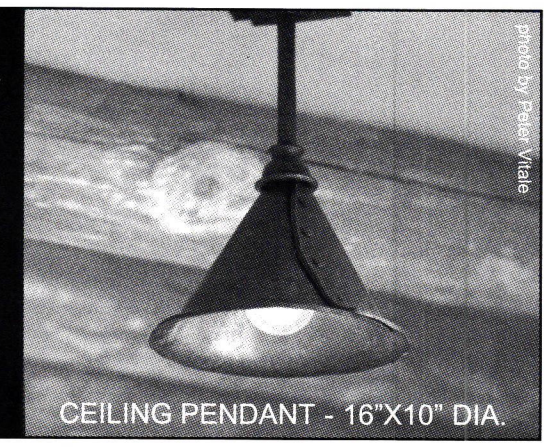

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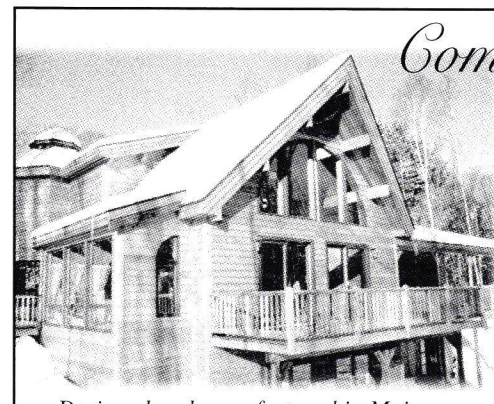

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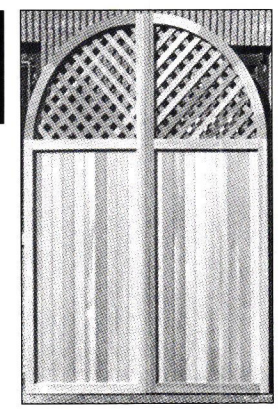

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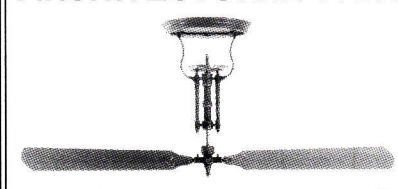

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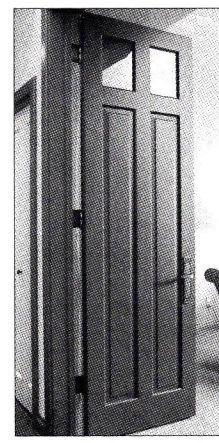

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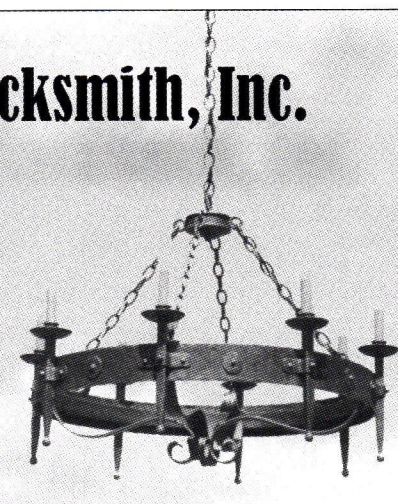

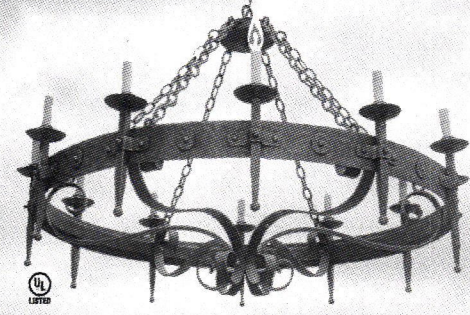

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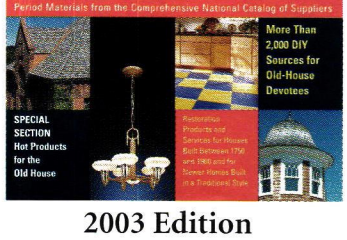

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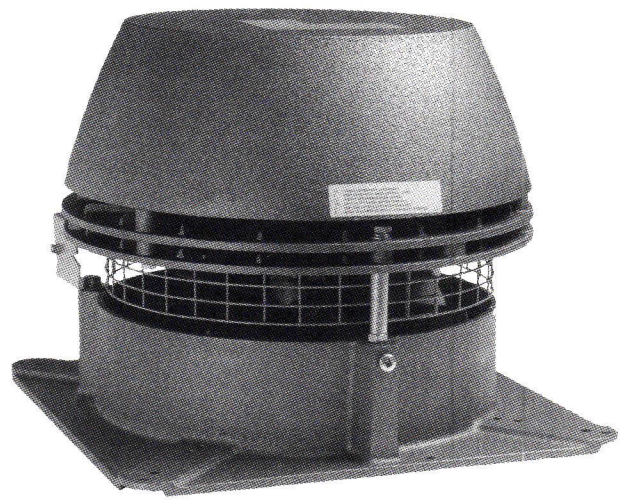

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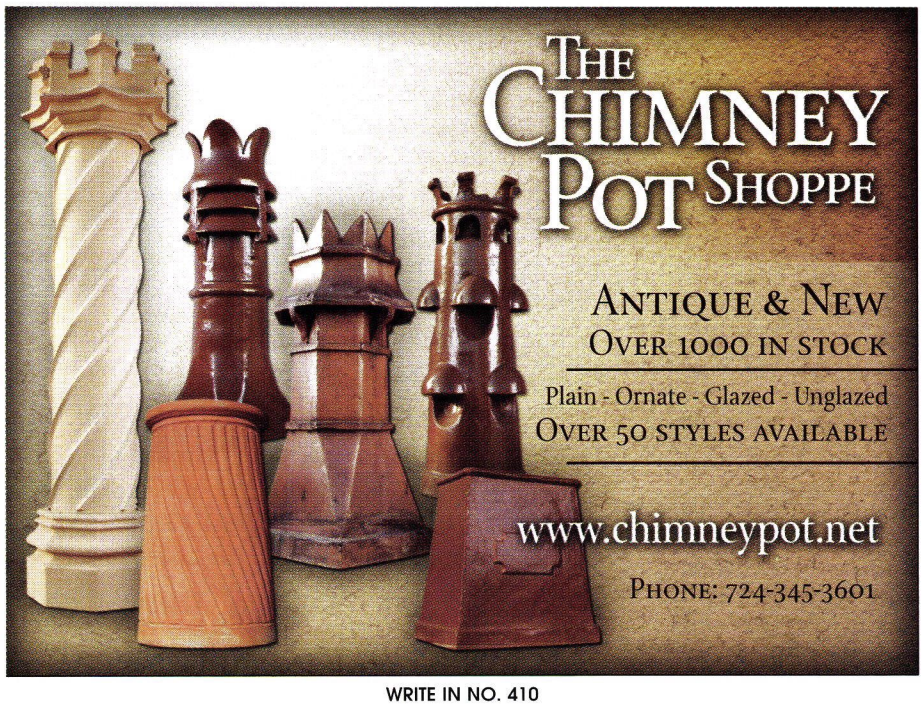

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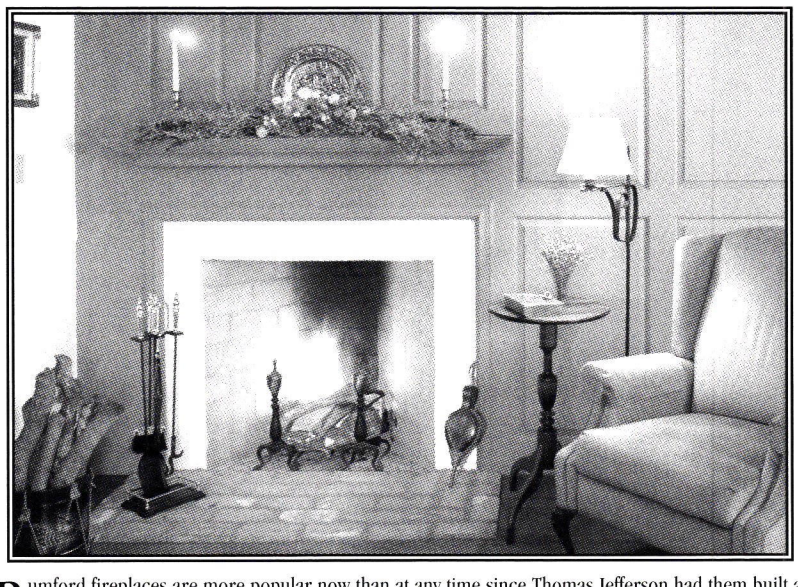

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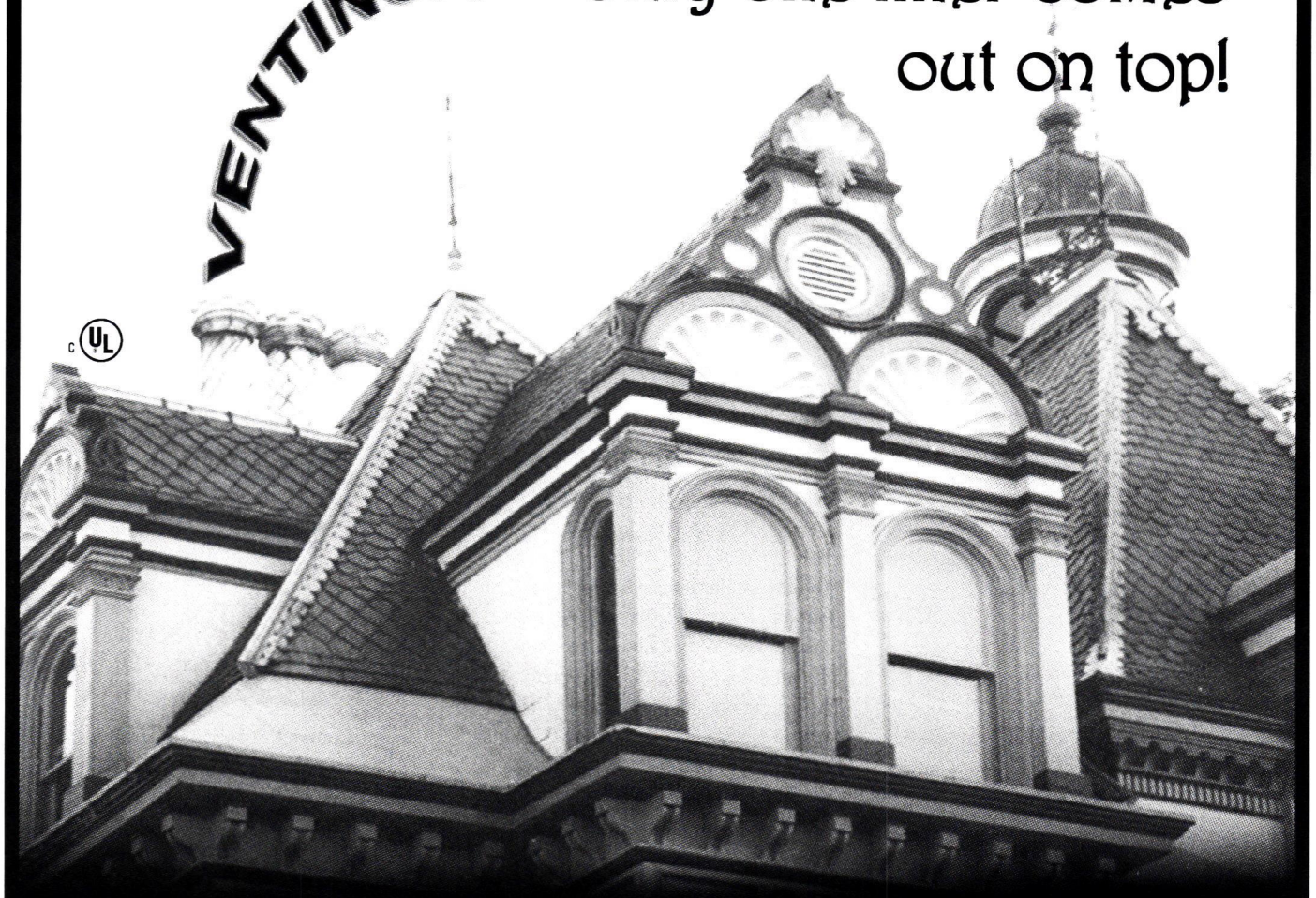

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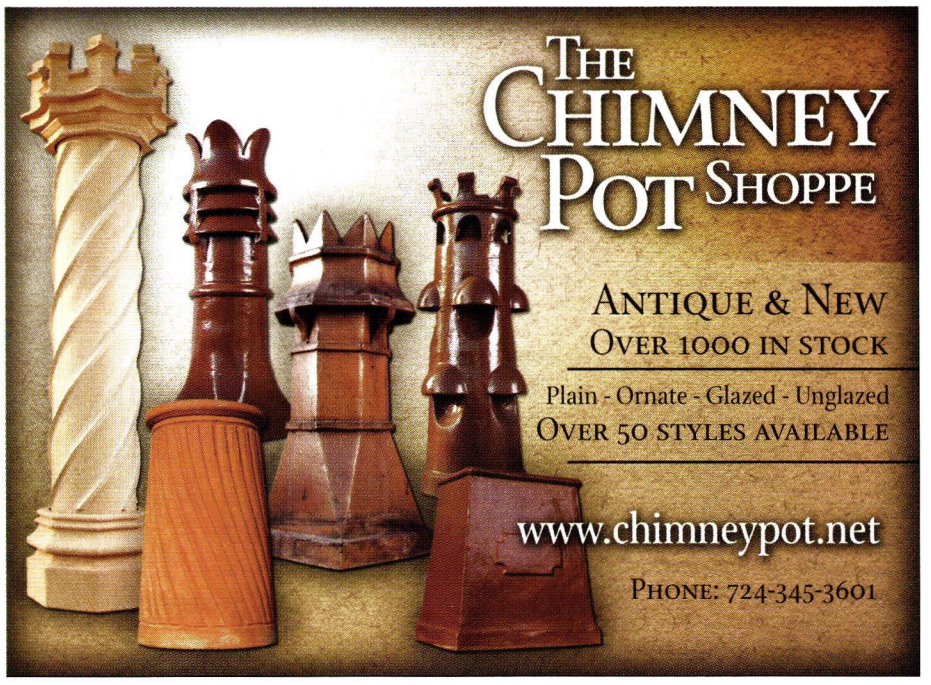

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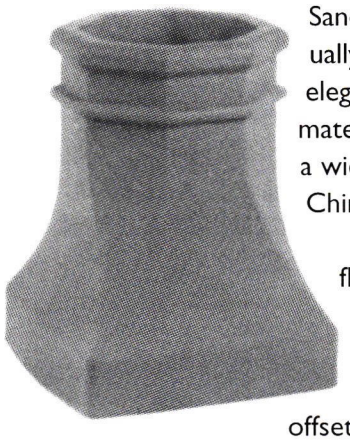

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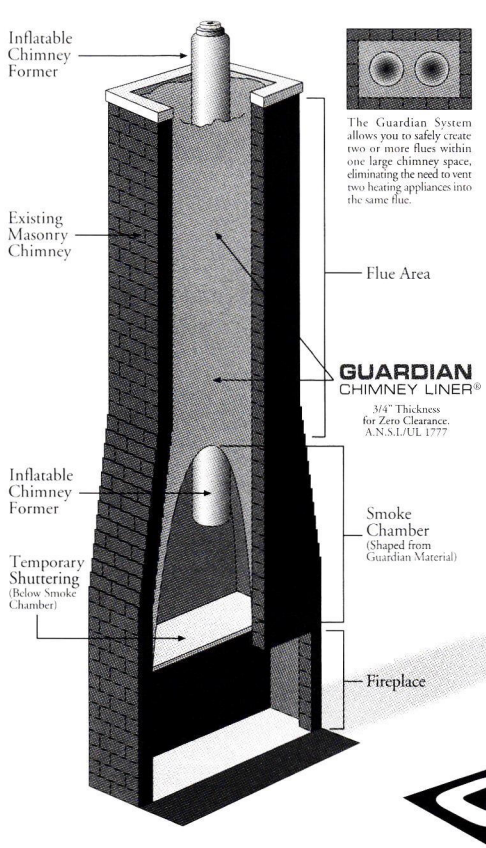

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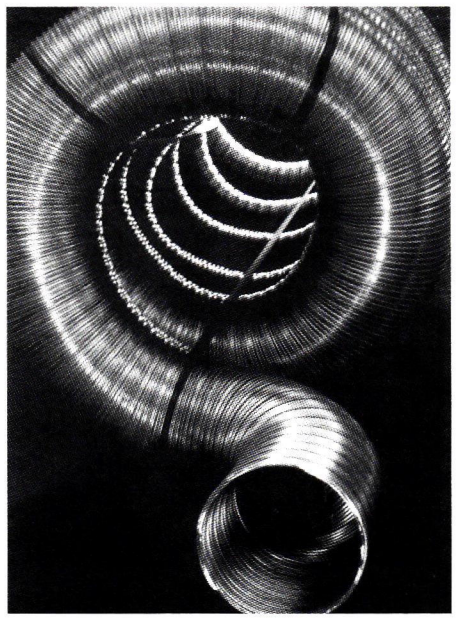

Pro Tech Systems manufactured the Ventinox chimney lining system in titanium-stabilized stainless steel, with spiral corrugations and continuous welding to provide strength and flexibility.

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800-766-3473; Fax: 518-463-5271
www.protechinfo.com
Albany, NY 12202

Supplier of Ventinox Chimney Liner Systems: continuous-weld construction; one-piece seamless flue; highly flexible; impervious to exhaust gases & condensation; stainless steel; venting for gas, oil & wood; since 1982. *Write in No. 26*

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Sandkuhl Clay Works, Inc.
419-657-2905; Fax: 419-657-2901
www.sandkuhl.com
Spencerville, OH 45887

Manufacturer of clay products: square & round clay flue linings; handmade terra-cotta, glazed & custom glazed decorative chimney pots; high-temperature mortar, fresh air kits & wine storage tile. *Write in No. 1193*

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Simpson Dura-Vent Co., Inc.
800-835-4429; Fax: 707-446-4740
www.duravent.com
Vacaville, CA 95696

Manufacturer of metal chimney vent systems since 1956: for gas-, wood-, oil- & pellet-fueled appliances & venting gas furnaces, water heaters, boilers & decorative fireplaces; all fuel systems for wood burning products; chimney relining for direct-vent chimneys; chimney caps.

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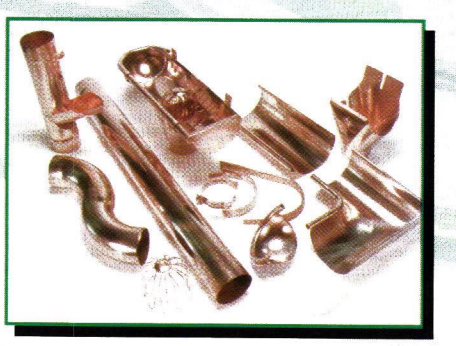

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Stainless	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Zinc	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aluminum	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5", 6"	5", 6"	5", 6"	5", 6"	5", 6"	5", 6"	5", 6"	6-4", 5-3"	3", 4"	3", 4"	3", 4"	3", 4"	3", 4"	3", 4"

• Stock Items • Custom Order

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BUYING GUIDE TO
GUTTERS & LEADER BOXES

American Eagle Roofing/Mayco Industries
800-749-6061; Fax: 205-945-8704
www.maycoindustries.com
Birmingham, AL 35209

Manufacturer of lead roofing systems: designed to last up to 300 years; standing seam & shingle; cornices, sheet lead, leader boxes, gutters & leaders. *Write in No. 403*

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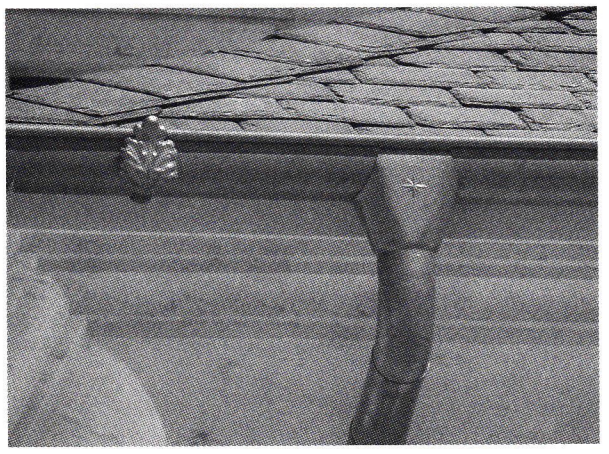
Bruckner Group
800-489-6474; Fax: 800-684-7510
www.brucknergroupinc.com
Dallas, TX 75219

Supplier of architectural metal: custom cupolas, cornices & European gutter systems; copper, stainless steel & mill & pre-weather zinc; one-piece miters & smooth seamless elbows with ornamental hangers. *Write in No. 1183*



Bruckner Group's rain-collection systems feature one-piece miters, smooth seamless elbows and ornamental hangers.

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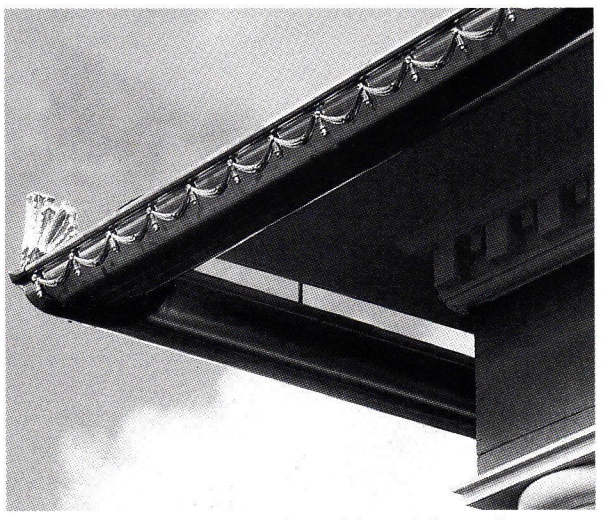
C&J Metal Products
800-500-8660; Fax: 562-634-8823
www.cjmetals.com
Long Beach, CA 90805

Fabricator of custom architectural sheetmetal products: dormers & dormer vents, finials, spires, canopies, leader heads & chimney tops; restoration & duplication of sheetmetal elements. *Write in No. 596*



Classic Gutter Systems fashioned this elaborate half-round copper gutter with gold-patinated solid-brass trim and a rain deflector.

Classic Gutter Systems, LLC
269-382-2700; Fax: 269-343-3141
www.classicgutters.com
Kalamazoo, MI 49003

Manufacturer of oversized 5-, 6- & 8-in. seamless half-round gutters: 20-oz. copper & heavy-duty aluminum; baked-enamel finish; hidden nut-&-bolt adjustable hanger system; cast fascia brackets & decorative components; solid brass & aluminum. *Write in No. 1280*

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Conklin Metal Industries
404-688-4510; Fax: 404-522-7439
www.metalshingle.com
Atlanta, GA 30312

Manufacturer of metal roofing shingles, gutters, downspouts & conductor heads. *Write in No. 1830*

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CopperCraft, Inc.
800-486-2723; Fax: 817-490-9661
www.coppercraft.com
Keller, TX 76248

Fabricator of architectural sheetmetal using traditional metalworking skills & modern technology: columns, spires, finials, weathervanes, dormers, cupolas, conductor heads, cornices, custom gutters, cladding, chimney caps & more; copper & lead-coated copper. *Write in No. 1490*

Custom-Bilt Metals
800-826-7813; Fax: 626-454-4785
www.custombiltmetals.com
S. El Monte, CA 91733

Manufacturer & supplier of standing-seam, shake, shingle & tile roofs: galvanized, painted steel, aluminum & copper; leader boxes, gutters & leaders. *Write in No. 217*

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EJMcopper Inc.
407-447-0074; Fax: 407-447-0075
www.ejmcopper.com
Orlando, FL 32826

Manufacturer of custom architectural sheetmetal fabrications: chimney caps, cupolas, finials, spires, dormer vents, leader heads & boxes, leaders, louvers, weathervanes & more; copper; online catalog. *Write in No. 588*

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Gutter Topper
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P.O. Box 349
Amelia, OH 45102

Supplier of a gutter attachment to prevent clogged gutters. *Write in No. 8052*

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Hans Liebscher Custom Copper Works
760-471-5114; Fax: 760-471-7884
www.hansliebschercopperwks.com
San Marcos, CA 92079

Fabricator of copper sheetmetal ornament & roofing: horizontal-radius curved gutters, stampings, gargoyles, leader heads, weathervanes & finials, ornamental twisted downspouts, cast-brass gutter hardware & smooth downspout elbows; reproductions of historical metal ornament from original pictures or drawings. *Write in No. 189*

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BUYING GUIDE TO
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256-350-7410; Fax: 256-309-5921
www.ornametals.com
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Manufacturer of decorative architectural products in copper & zinc: finials, weathervanes, radius gutters, waterspouts, medallions, mansards & roofing ornament. *Write in No. 452*

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Park City Rain Gutter
435-649-2805; Fax: 435-649-2605
www.pcraingutter.com
Park City, UT 84098

U.S. importer & distributor of Minoletti products: European half-round rain gutters & accessories in zinc & copper; easy installation; gutter chains & hangers, leader boxes, copper grilles & vents. *Write in No. 832*

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www.guttersupply.com
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Supplier of gutter materials & equipment: copper gutter & leader boxes; decorative, ornamental & custom supplies & equipment; custom architectural sheetmetal solutions; residential, commercial & industrial. *Write in No. 1191*

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www.slateandcopper.com
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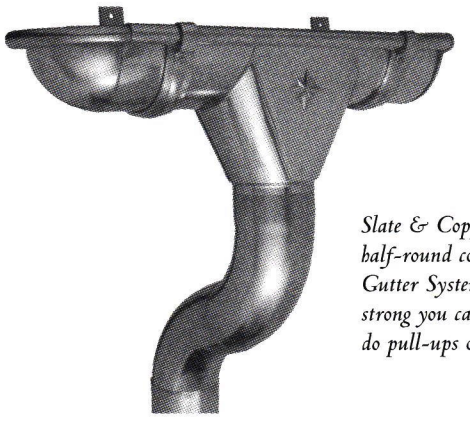
Supplier of slate & copper roofing: 16- & 20-oz. copper gutters & accessories; copper standing-seam roofing, ridge cresting, dormers, sheets, nails, rivets & rain chains; new & salvaged slate-roofing materials. *Write in No. 8062*



Slate & Copper Sales' half-round copper World Gutter System is so strong you can literally do pull-ups on it.

Susan Hebert Imports
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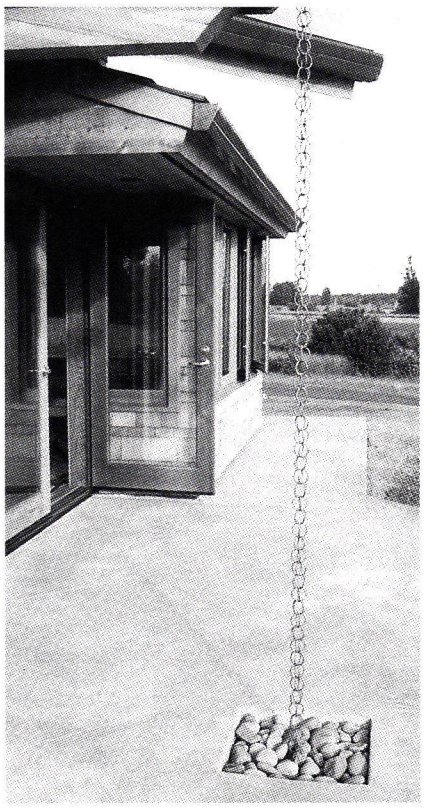
Supplier of more than 120 designs of handmade, solid-copper decorative accessories: rain chains & cups; all pieces signed by the artist; many have an historical Arts & Crafts reference. *Write in No. 304*



The model #JM-11 rain chain from Susan Hebert Imports comes with a gutter clip and downspout adapter, and is sold by the linear foot.

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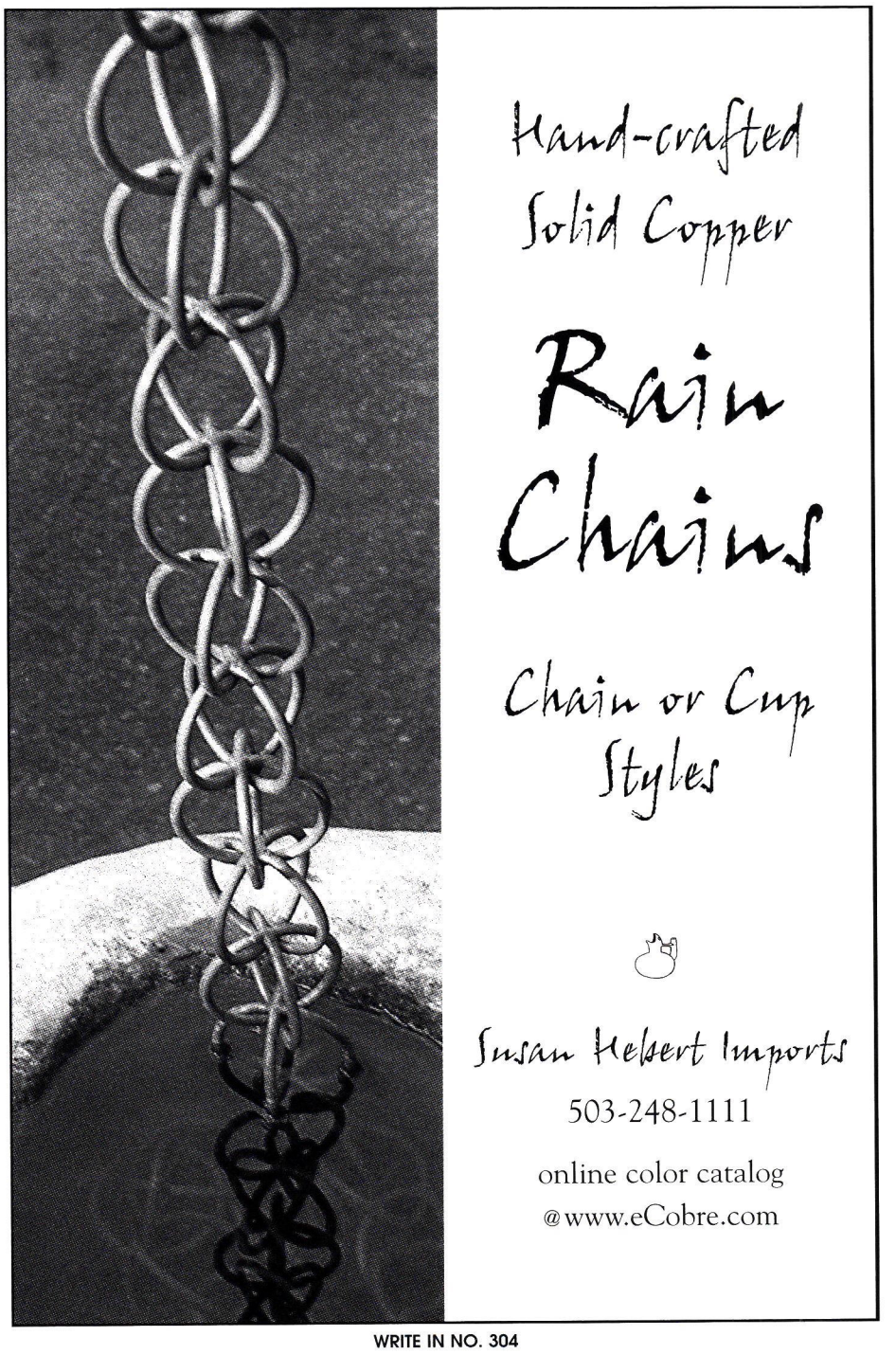

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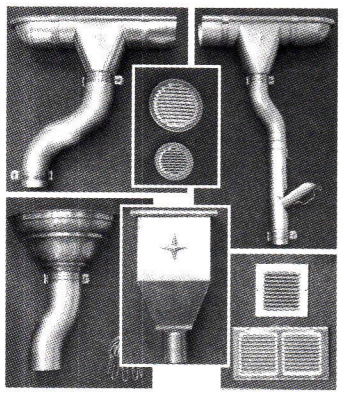

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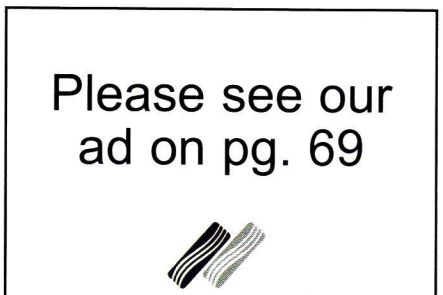

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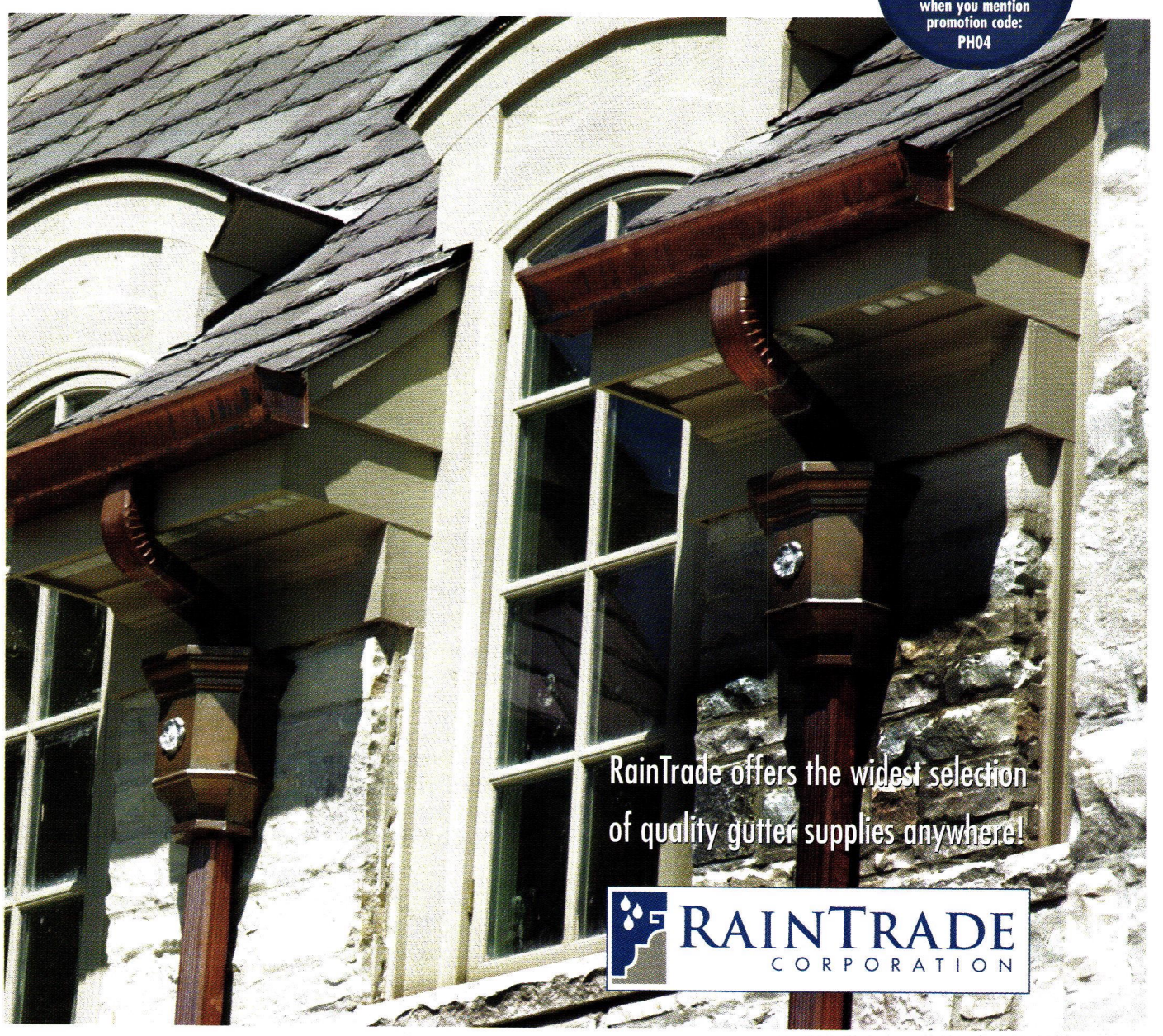

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www.maycoindustries.com
Birmingham, AL 35209

Manufacturer of lead roofing systems: designed to last up to 300 years; standing seam & shingle; cornices, sheet lead, leader boxes, gutters & leaders. *Write in No. 403*

American Eagle/Mayco Industries supplies and installs both lead shingles and lead-sheet roofing.

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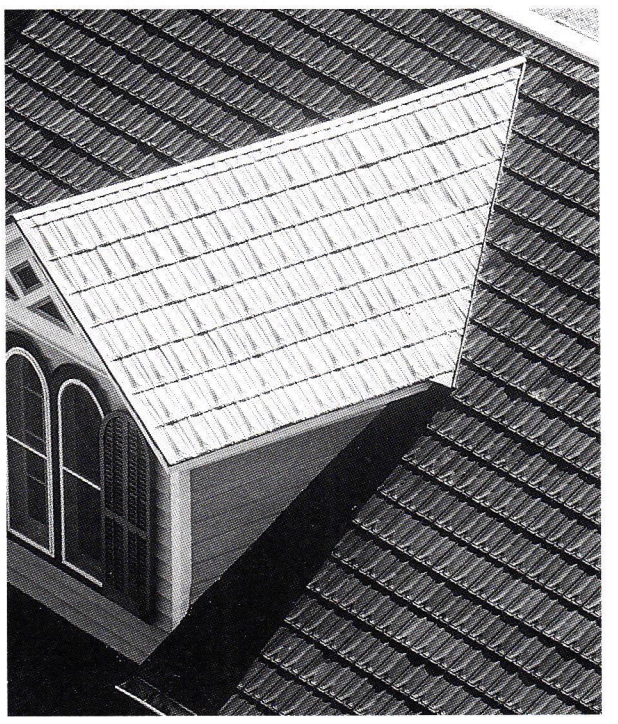
Conklin Metal Industries
404-688-4510; Fax: 404-522-7439
www.metalshingle.com
Atlanta, GA 30312

Manufacturer of metal roofing shingles, gutters, downspouts & conductor heads. *Write in No. 1830*



Conklin Metal supplies roofing shingles with galvanized, light-gray Paintgrip, and copper, terne or terne-coated stainless finishes.

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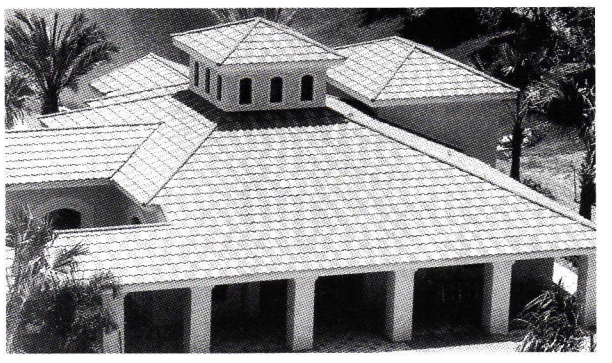
Manufacturer & supplier of standing-seam, shake, shingle & tile roofs: galvanized, painted steel, aluminum & copper; leader boxes, gutters & leaders. *Write in No. 217*



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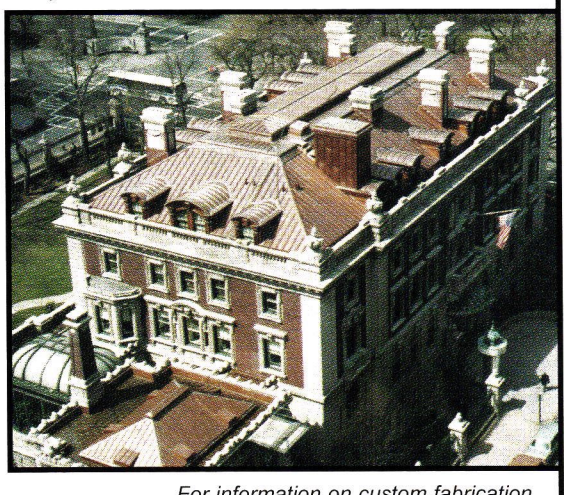

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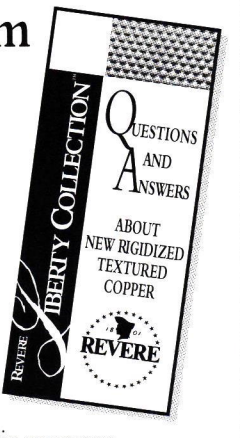

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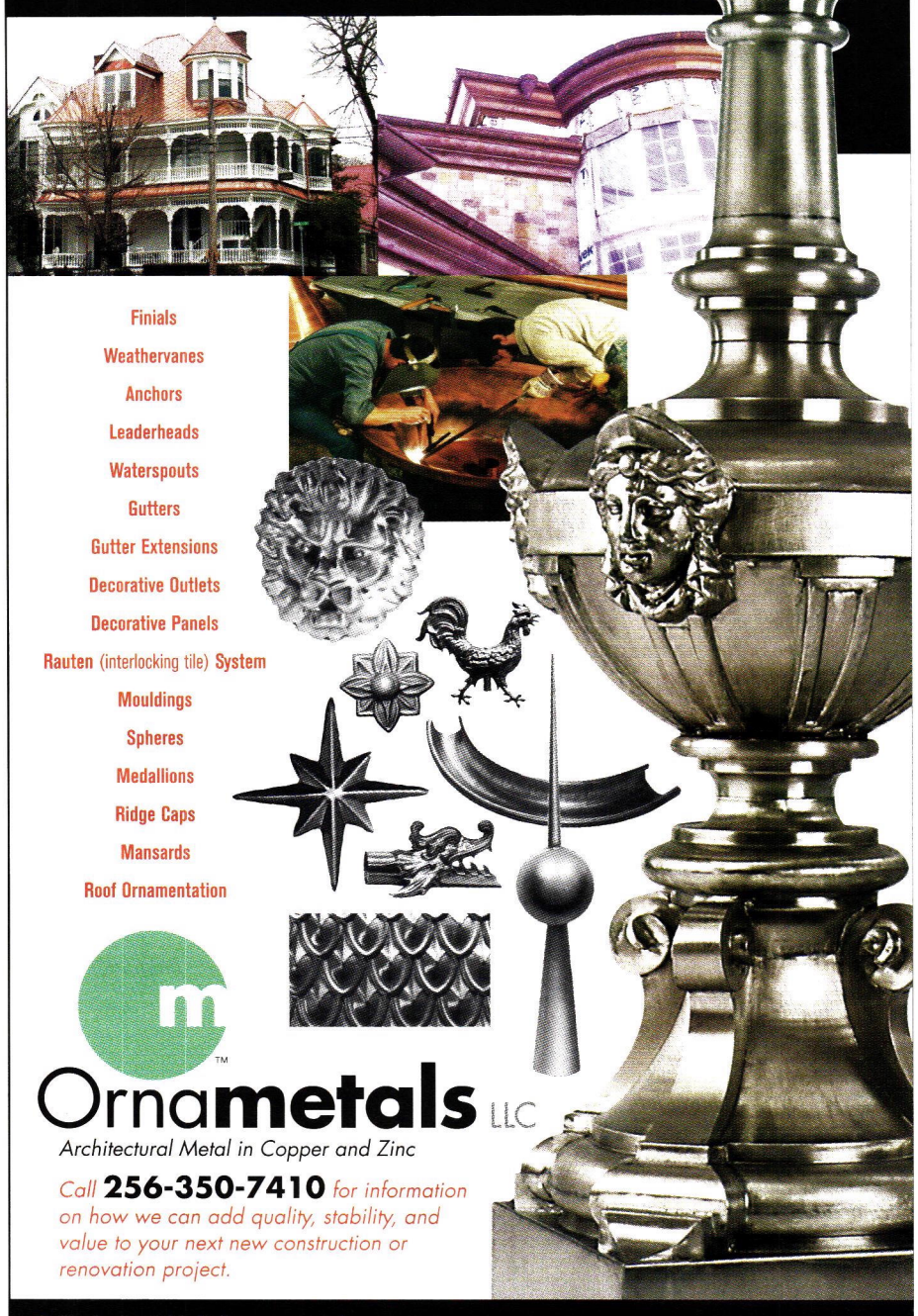

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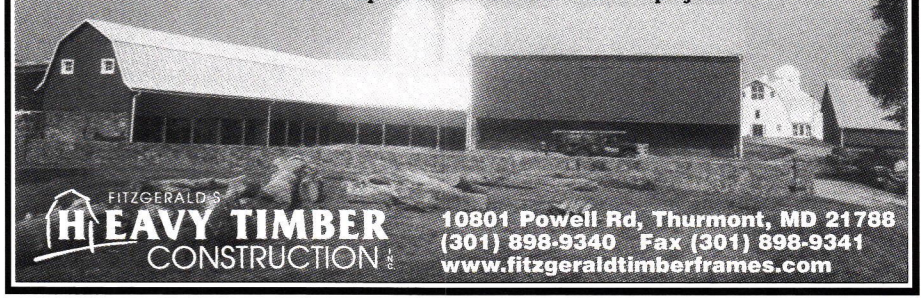

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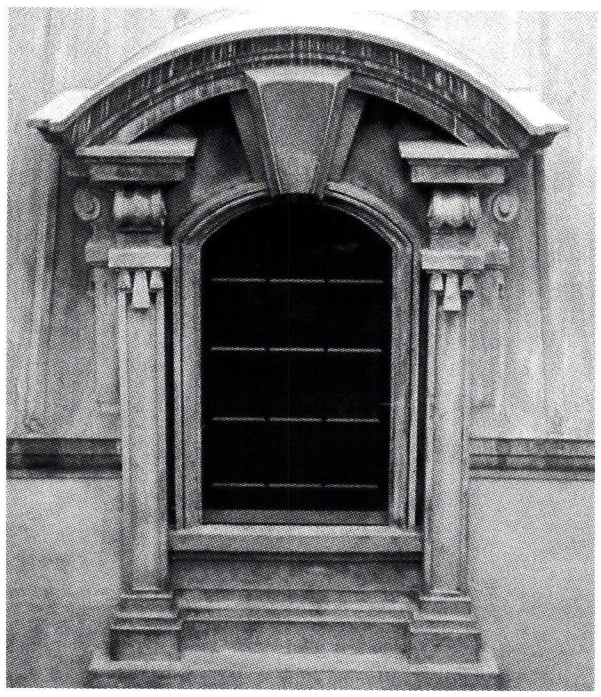

NIKO Contracting restored this copper dormer that was once in place at the Carnegie Mansion in New York City.

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Slate & Copper Sales Co.
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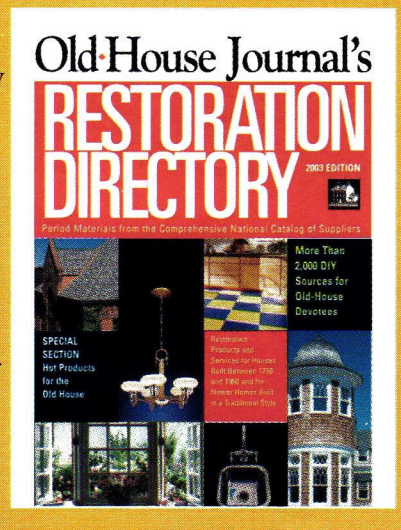

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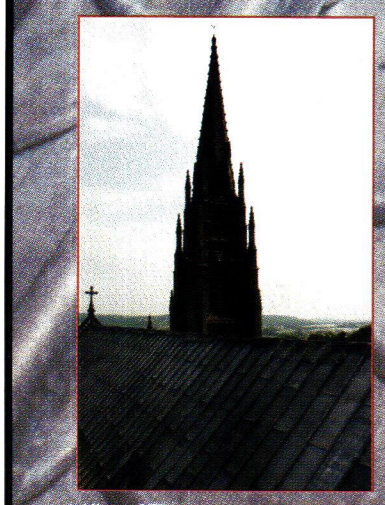
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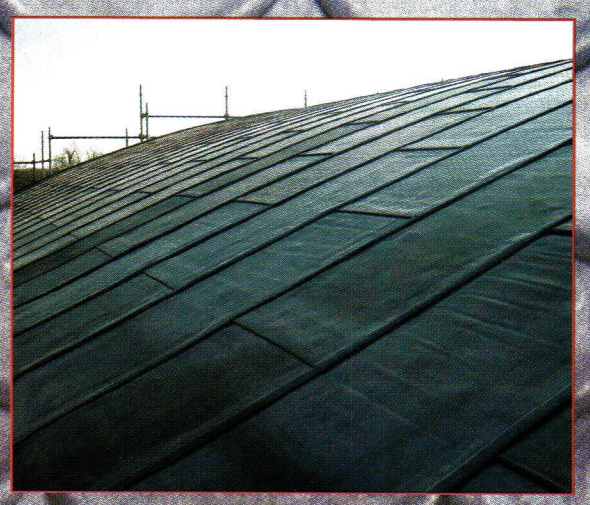
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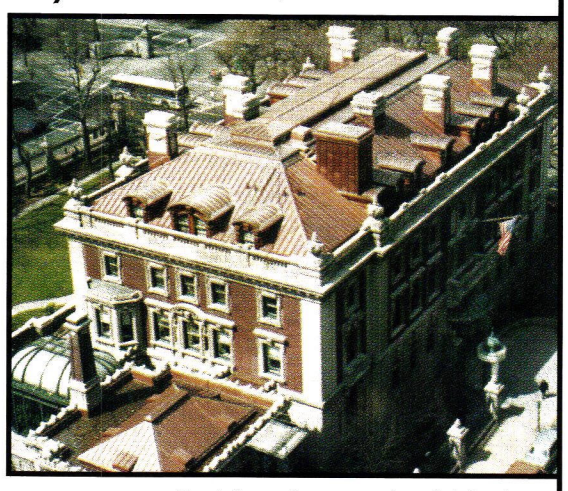

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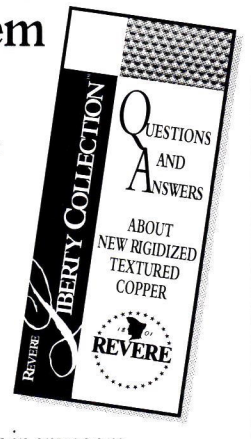

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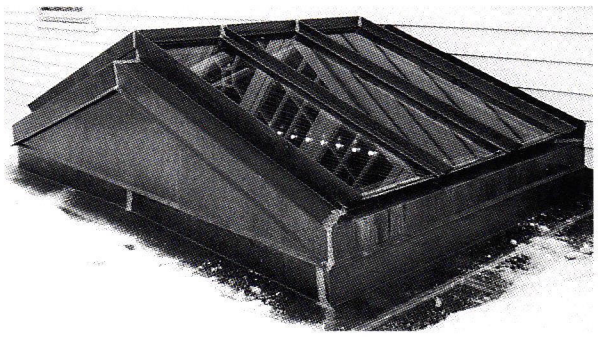

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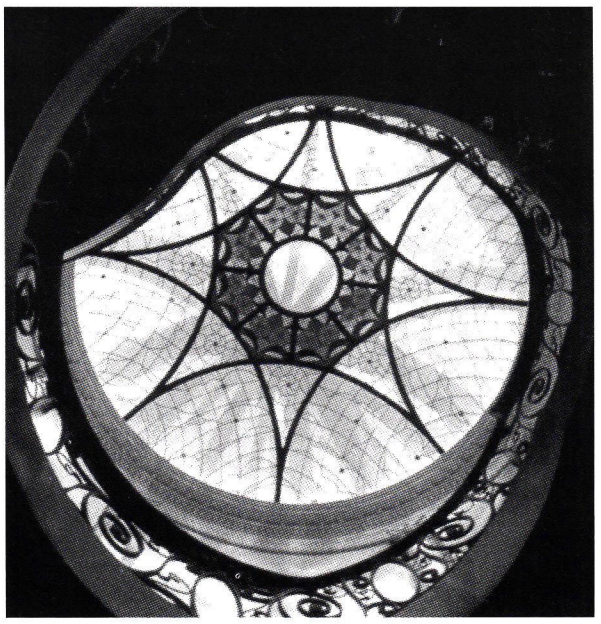

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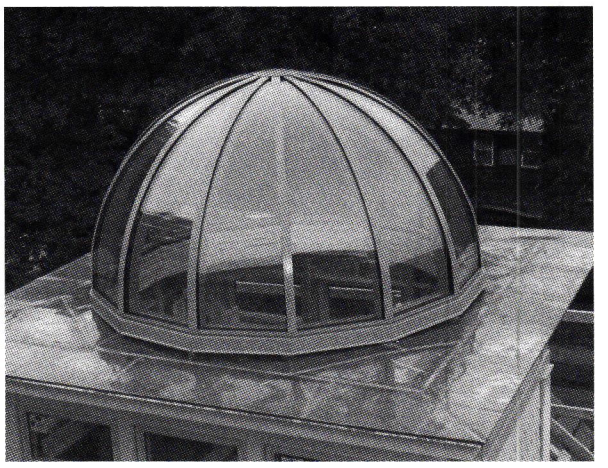

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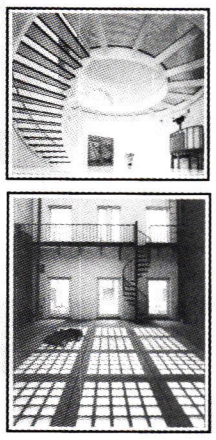

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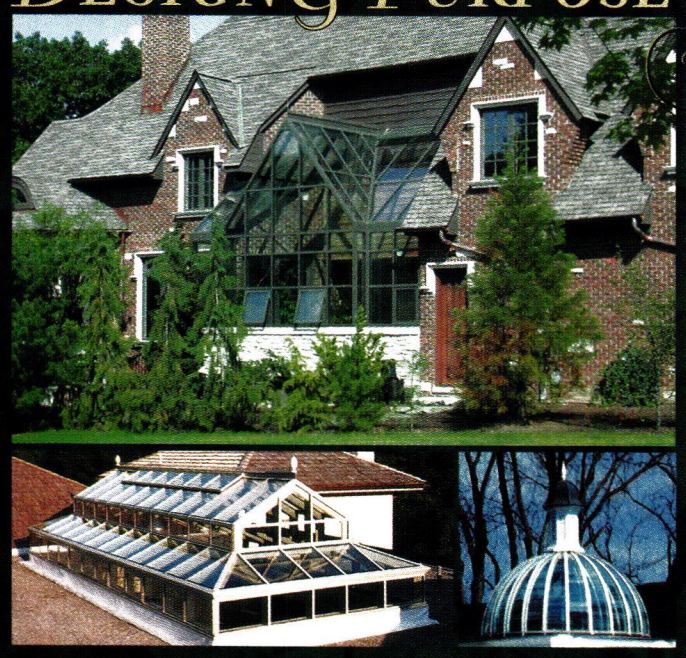

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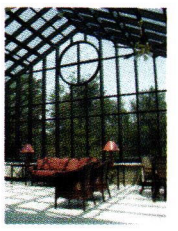

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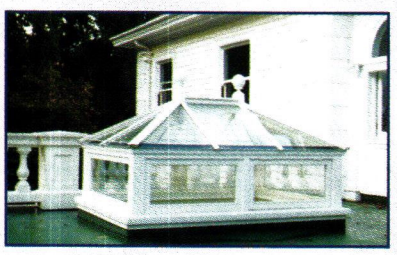

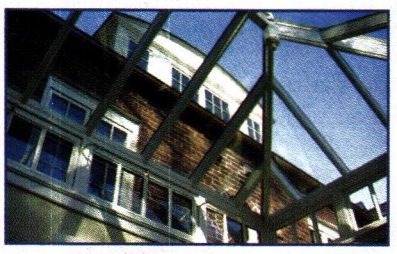

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How to Preserve a Slate Roof

Slate roofing, neglected for years, is making a comeback.

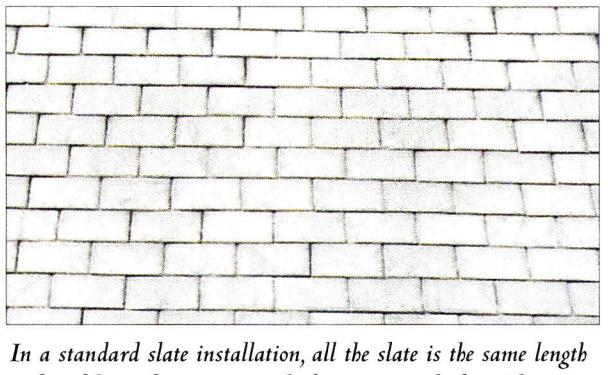
by Joseph Jenkins

Slate roofs are the world's finest roofs. They're fireproof, waterproof, natural, will last centuries and have a track record that goes back thousands of years. They are beautiful, simple roofs made of rock on wood – effective and successful. Yet, in the United States, they have been neglected for decades, destroyed by the thousands, cast away and forgotten. Slate-roof owners are plagued by two problems: general roofing contractors who do not understand slate-roofing systems and the absence of specialist slate-roofing contractors. If a slate roof is in need of repair, maintenance or restoration, what's a roof owner to do?

The best way for someone to protect a slate roof is to first become informed. It is very common for slate-roof owners to face a continuing onslaught of roofing contractors wanting to tear off their slate. These are good, sound roofs that have 50 or 75 years of life remaining, maybe more. The number-one threat to slate roofs on vintage homes today is poorly informed, inexperienced roofing contractors looking for a house on which to staple cheap, asphalt shingles. Owners can best protect their roofs by knowing more about the material that is covering their houses.

Above: Vermont unfading-green slate on a Vermont purple slate background, photographed in 2003, is, at 143 years old, still going strong.

Right: This roof, made with Vermont purple slate and a Vermont unfading-green slate date, located near Fair Haven, VT, is 152 years old and could function admirably for generations more.



In a standard slate installation, all the slate is the same length and width – what is seen is the bottom of each slate. The overlap is called the headlap.

The Basics

The four basic elements of a slate roof include: 1) The slate itself. This should be a hard variety with a reputation for longevity; 2) The roof deck. This should be a board deck (not laminated wood) at least ¾-in. thick; 3) The flashings (the sheetmetal joints between roof planes). These should be copper or stainless steel, although the old tin flashings will last quite a long time if kept painted and are easily replaced when they wear out; 4) The nails. These should be copper or stainless steel, but cut-steel nails and hot-dipped galvanized-steel nails will easily last a century or two on a well maintained slate roof.

These four elements make up a basic American slate roof – stone slabs attached with nails to a properly sloped wood roof deck and flashed where necessary with appropriate sheetmetal. Such a roofing system is very simple, yet amazingly durable and long-lasting.

So, what goes wrong with these roofs?

Slate is stone. It is pulled from the earth in heavy slabs and worked down into individual shingles, largely by hand. The fact that slate roofs are rock roofs is the basic reason that they last so long. However, stone is a natural material and may have invisible fractures or other imperfections that are not noticeable when the roof is installed. These can cause a slate or two to eventually break and come off the roof. People walking on slate roofs also damage them. This includes the roofing contractors who install or repair the slate. A "bigfoot" roofing contractor will crack slates that can later, after a freeze/thaw cycle or other environmental pressure, break apart. Broken slates, however, can easily be replaced.

Some slate varieties are softer than others and do not last as long. Such slates will become flaky and crumbly when they reach the end of their effective lives, which could be as soon as 55 years, but more likely around 80-100 years. These soft-slate roofs cannot be saved or restored, but can easily be replaced with new or salvaged slates. Harder slates, such as most Vermont slates, the Peach Bottom slates, Buckingham slates, Monson slates and others, could conceivably last centuries on a properly maintained roof.

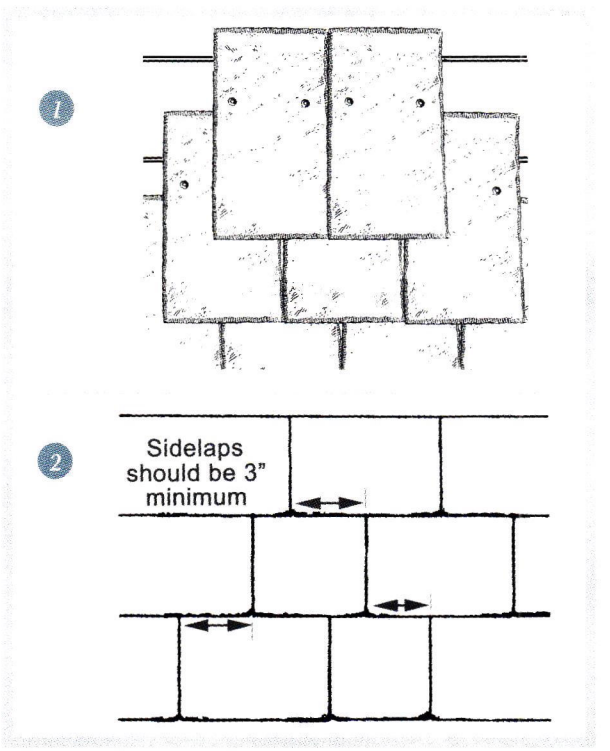
Flashings eventually wear out. These are the metal joints around chimneys, in valleys, alongside dormers, around pipes that protrude through the roof, etc. They are also easily replaced by experienced slate-roof restoration professionals.

Finally, bad workmanship, such as improper repair work, plagues many an old slate roof. This is visible as tar splotches, mismatched slate, metal patchwork, coated roofs and other mistakes. Once again, these errors can usually be removed and properly replaced. Coated slate roofs cannot be remedied, however, and such a practice should be avoided.

Installation

For a better understanding of how slate roofs work, let's take a look at how one goes together. First, there is the standard installation, which is the most common and basic way to install slate in the United States (Figure 1). Each slate is the same length and width and is fastened to the roof with two nails along a chalk line that marks the top edge. Note that each slate overlaps two courses below it – this is called the

In a random-width installation the widths of the slates can vary greatly.



headlap. It is one element of a slate roof that is essential. Slate sizes, widths, lengths, colors, shapes and thicknesses can all vary, but the headlap is a constant that must be maintained. A minimum of 3-in. is standard, but greater headlap is acceptable; less can lead to leakage, depending on the slope of the roof (however, 2-in. headlap is common on older roofs with adequate slope).

A simple variation of the standard installation is the random-width roof, which utilizes slates of various widths rather than just the uniform width of the standard installation. In this case, the sidelaps, as well as the headlaps, are critical. Sidelaps are the lateral spacing of the side butts of each slate in relation to the course above or below (Figure 2). They, like the headlaps, should be a minimum of 3 in.

Slate can vary in both width and length. Used together, different sized slates are called a graduated roof, because the slate graduates from larger at the bottom of the roof to smaller at the top. Proper sidelaps and headlaps must also be maintained for the successful functioning of graduated roofs.

In a graduated slate roof, the slate varies in both width and length. This roof also blends several colors.

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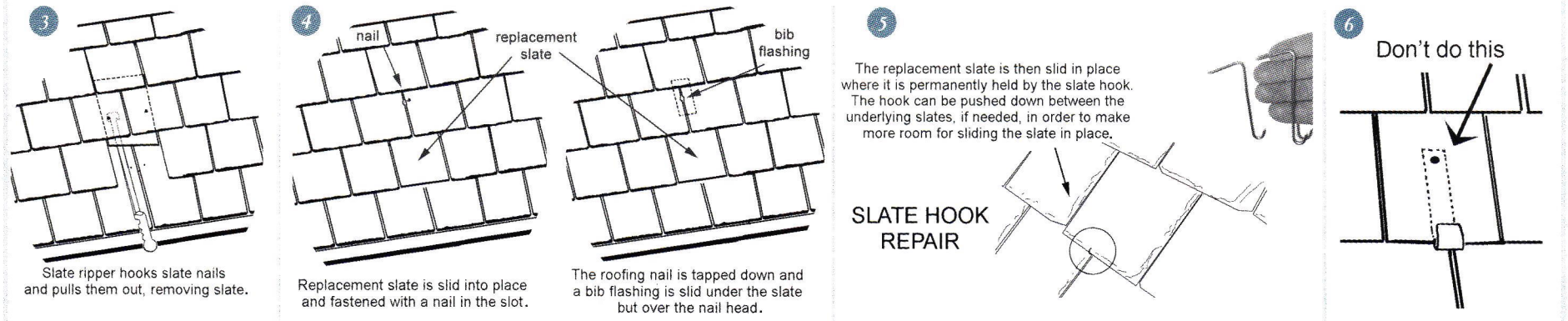

A random-width installation can be modified into a staggered-butt style, which utilizes slates of two or more lengths fastened to the roof along chalk lines that mark the top edge of the slate, as in the standard installation, but allowing the extra lengths of the slate to hang down, creating a unique look. This can be further modified by mixing slate of different colors and even different thicknesses. In this case, the longer slate simply creates a longer headlap. At no time is the 3-in. minimum decreased.

For this staggered-butt slate roof, colors and thicknesses were varied. The top of the slate is lined up, but the bottom is allowed to hang down.

The top of the slate in a ragged-butt slate roof hangs down, like the staggered-butt roof, but the bottom edges are trimmed at random to create a unique look.

Finally, the staggered-butt style of slating can be further modified into a ragged-butt style, which is done by cutting the exposed bottom edges of the slate randomly to create an inimitable roof. All of these slating styles are variations of the standard installation, all maintain correct minimum headlaps and sidelaps, all are leakproof if properly maintained (with or without underlayment) and all will last as long as the slate itself lasts, providing an act of God, or a roofing contractor, does not destroy the roof first.

Replacement

When a slate breaks after being installed on the roof, how is it replaced? This is easily done in the same manner in all cases: either with the nail-and-bib technique or the slate-hook technique. First, the broken slate must be removed. This is accomplished by using a slate ripper to hook the nails that fasten the slate to the roof. The hooked nails are then pulled out and the offending slate comes out with them (Figure 3).

A matching replacement slate is then slid into place and fastened with an appropriate roofing nail in the overlying slot, then the nail is covered by a bib flashing (Figure 4). An alternative to this is to use a slate hook to hold the replacement slate in place (Figure 5). Exposed strap hangers should not be used when replacing slate (Figure 6). These are unsightly and will open up, flatten and allow the replacement slate to slip out if ice or snow should slide down the roof.

The removal and replacement of slate is also necessary when replacing flashings on the roof. When flashing metal deteriorates, the slate that covers the flashing must be removed in order to allow the old flashing to be taken out. Once the old metal is completely out, new metal can be installed, after which the slate is replaced in its original location. When the job is completed, the roof should look like the original roof, not like a repaired roof. This is routine work for a slate-roof restoration professional.

Basic repairs require replacement slate that matches the roof. Most general roofing contractors today make their living by re-roofing, usually with a short-lived asphalt material. A good slater will stockpile a variety of salvaged slate – all different sizes, shapes and colors – or will know where to get what he or she needs, perhaps from a roof slate salvage yard.

Myths and Misinformation

Myth 1

Your underlayment (felt paper underneath the slate) has worn out and therefore you need to replace your roof.

False: Felt paper is installed when the slate is installed in order to keep rain out of the building until the roof has been completed. Once completed, the felt paper, now peppered with holes from the roofing nails, serves no useful purpose other than as a temporary semi-waterproof layer that will eventually turn to dust. Many century-old slate roofs never had any felt paper installed under them whatsoever and are still functioning quite well today. It is the slate and the flashings, not the underlayment, that render the roof leakproof.

Myth 2

Your slate nails were not copper and therefore you need to replace your roof.

False: Most older slate roofs were installed with either hot-dipped galvanized nails or cut-steel nails. On a hard-slate roof, these nails will still be quite good after a century. On a deteriorating soft-slate roof, which allows some moisture to penetrate through the slates to the nails, the nails will be much more decayed. Soft-slate roofs will need to be replaced anyway; the roofs made of harder slate will not, regardless of the type of nail. In rare cases, entirely wrong nails were used in the first place to install the slate roof. There is no remedy for this other than to replace the roof.

Myth 3

Roof slate is an obsolete material and cannot be bought today.

False: Roof slate is still quarried in Pennsylvania, Virginia, Vermont and New York as well as around the world. It is readily available new in any size, shape or color desired. There are also companies that specialize in salvaging older roofing slates. Salvaged slate can be bought to match just about any existing period home.

Myth 4

Nobody repairs slate roofs anymore and competent slaters cannot be found.

There is, unfortunately, some truth to this: There are many contractors who will declare themselves slate-roofing experts when, in fact, they are simply blowing it out their wazoo. There are, however, many competent slate-roofing professionals scattered throughout the country and they are increasing in number, as more training, information, tools, equipment and networking become available. There is now a new professional association being organized, the Slate Roofing Contractors Association of North America (www.slateroofers.org), which will soon be listing screened, experienced professional slate-roofing contractors on the internet.

There are many other issues and topics involved in the preservation of slate roofs, such as safety issues, accessing the roof, scaffolding, other tools and how to use them (slate cutters, slate hammers and ladder hooks, for example), how to identify roof slates, side-lapped slates, slated valleys, eyebrow dormers, ridges, hips, chimneys and a host of other styles, details and methods.

If a slate-roof owner is armed with the proper knowledge, understanding and information, he or she will best be able to protect and preserve the stone-roof covering his or her home. With the help of a competent slate-roof restoration professional, there is hardly a slate-roofing problem that cannot be understood and solved. ◆

The Second Coming of the Slate Roof Bible

Slate Roof Bible, 2nd edition: *Understanding, Installing and Restoring the World's Finest Roof*
by Joseph Jenkins
Jenkins Publishing, Grove City, PA; 2003
316 pp.; softcover; 361 color photographs; 229 illustrations
$40; ISBN 0964425815

The new edition of the *Slate Roof Bible,* now available from www.jenkinsslate.com (1-866-641-7141) and book stores for $40, has several changes from the original 1997 edition. Printed in full color throughout, the book was also re-edited, revised and updated, with seven additional chapters.

"International Slate", one of the new chapters, explores where roof slate comes from and what it looks like, what mines are like and what sort of slate-roofing history regions such as France, Germany, Italy, Scotland, the UK, China, Spain and Ireland boast. "International Slating Styles", a companion chapter, reveals various age-old methods of installing slate as practiced by different nationalities.

"Roof Inscriptions and Designs", "Recycling Slate Roofs", "Chimneys", "Valleys" and a catch-all chapter including clay-tile roofs, asbestos roofs and soldered-seam metal roofs, with repair instructions for all three, comprise the rest of the chapters.

New illustrations in this edition total approximately 361 color photographs plus 229 line drawings, charts, graphs, maps and more. Step-by-step line drawings illustrate how to fabricate lead plumbing/vent pipe flashings, how to re-flash chimneys located on different areas of slate roofs, how to replace valleys on both slate and tile roofs, how to replace step flashings, how to rebuild chimney tops and how to install, repair and restore slate roofs.

Finally, the second edition also contains a comprehensive, up-to-date industry resource listing, including sources of new roof slate, salvaged roof slate, new and salvaged clay tiles, slate tools and equipment, flashing metal and nails, rivets and slate hooks.

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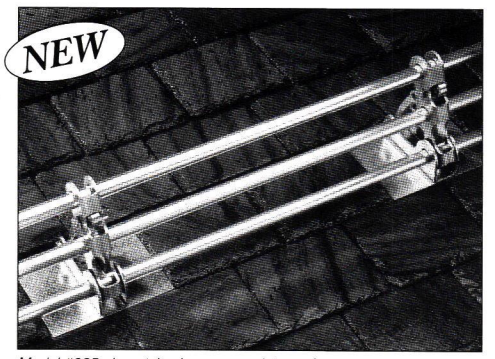

Model #225 pipe-style shown on a slate roof

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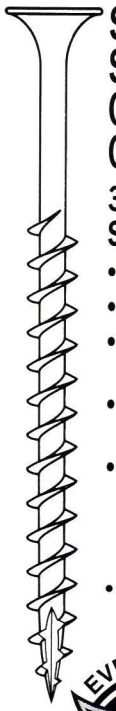

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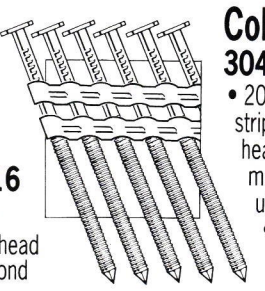

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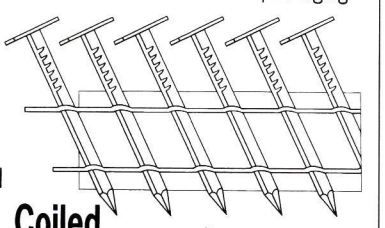

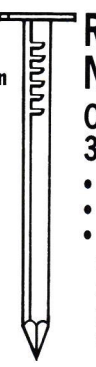

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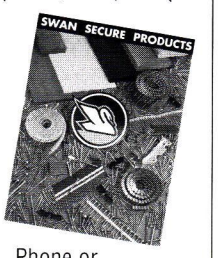

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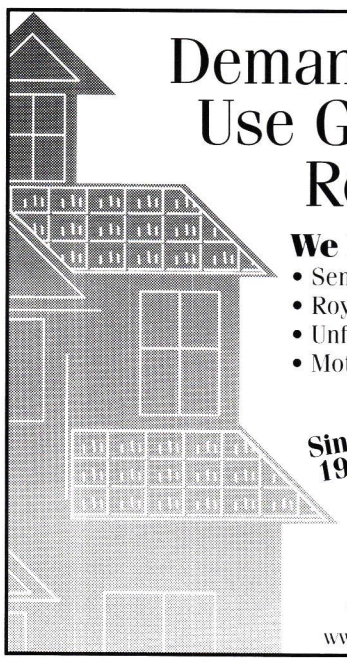

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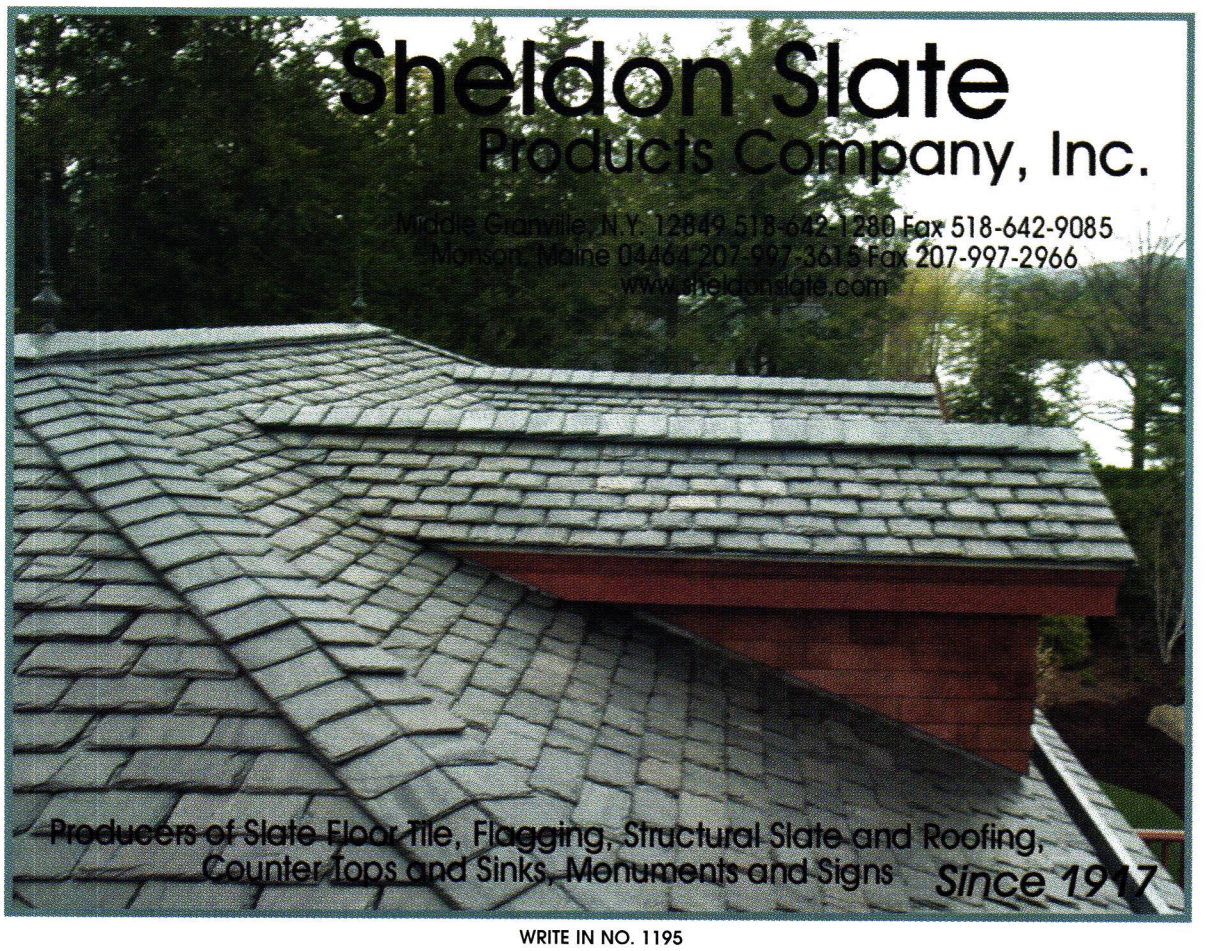

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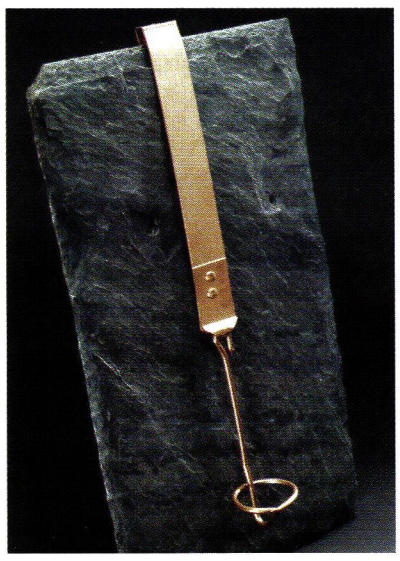

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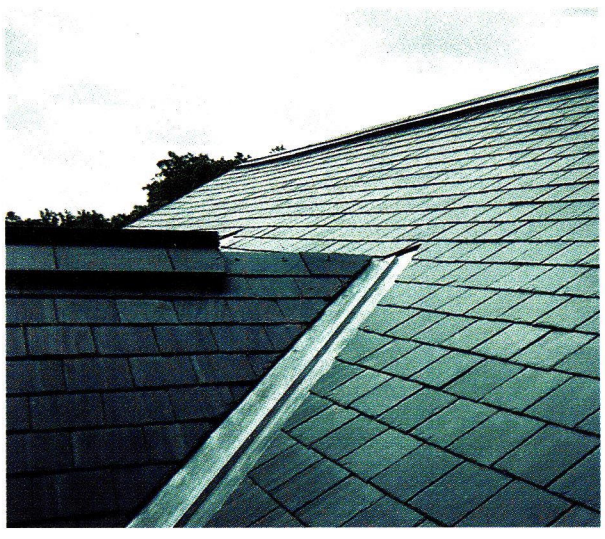

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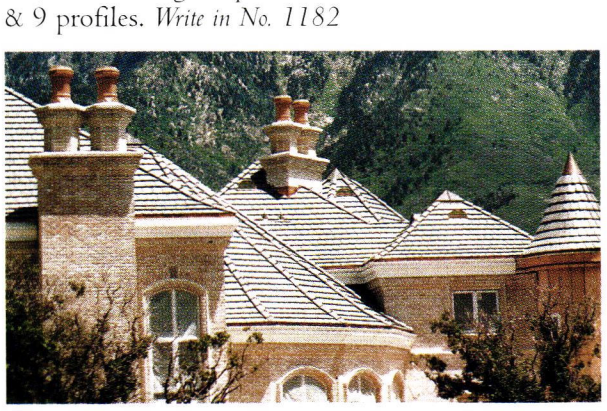

Bartile Roofs used interlocking slate-style concrete roof tile and interlocking, tapered and arced turret tile to complete this roof.

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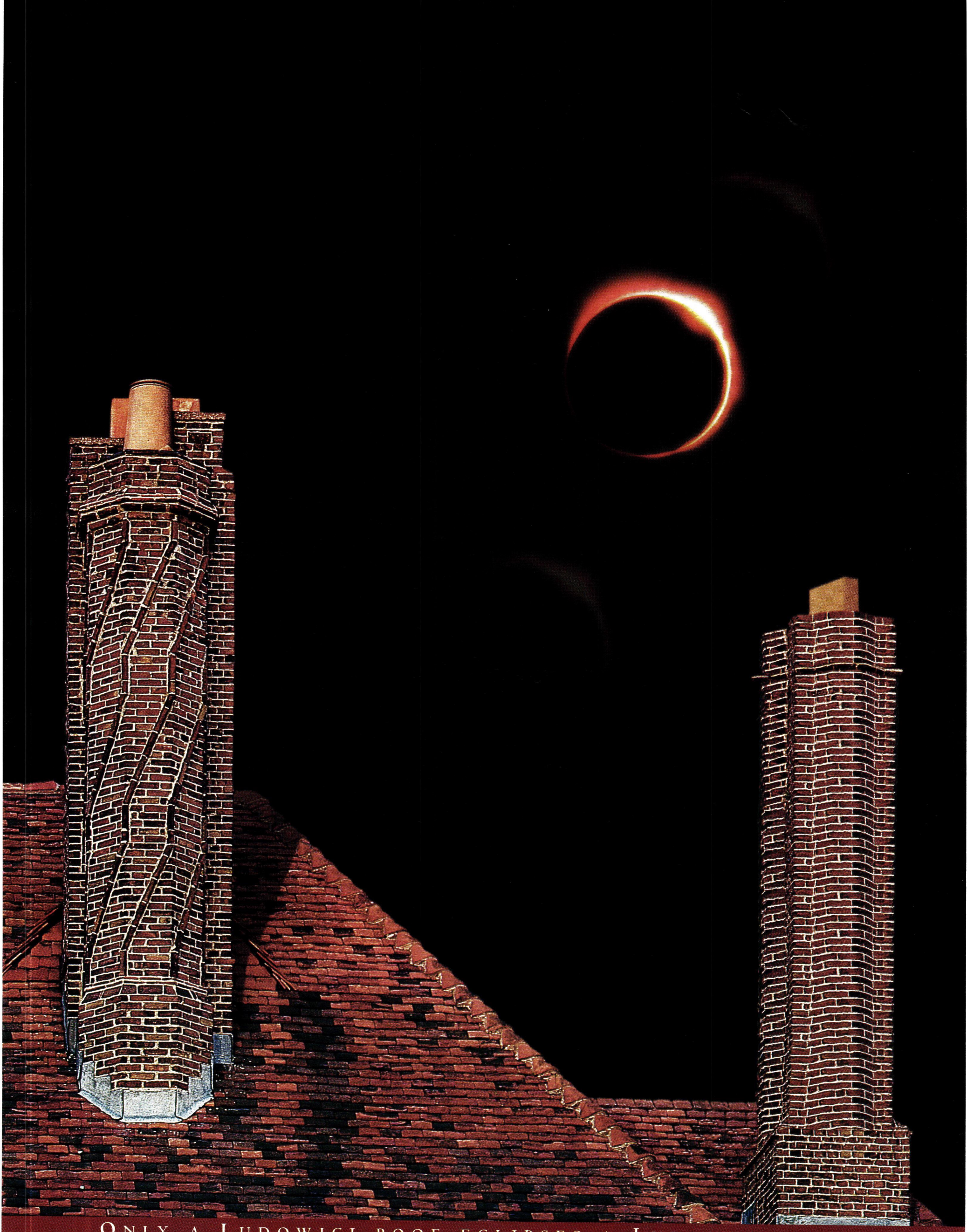

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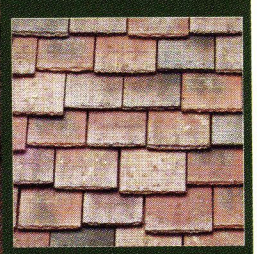

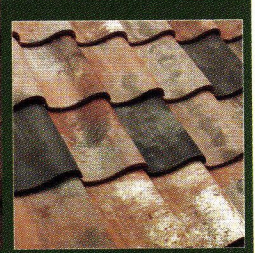

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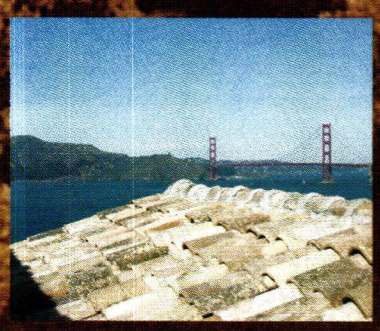

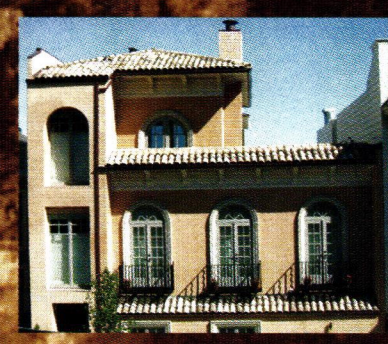

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WRITE IN NO. 354

The Tradition of Thatched Roofs

Although something of a novelty in the United States, thatch has a history here, and is making a comeback.

by Nicole V. Gagné

The use of thatch in European houses predates the Middle Ages, and it was one of the first roofing types to appear in New World settlements of the late-16th century – but then, native dwellers of the region, such as the Powhatan Indians, had long been roofing their homes with thatch. Although the term "thatch" can be used for any type of vegetation that roofs a building, the most common materials employed in the United States and Europe are reed and straw.

Master thatcher Colin McGhee first became fascinated with thatching as a child in his native England. "My parents are from Scotland and while we lived in the north of England, we'd regularly go on visits back to Scotland," he recalls. "When I was 7 years old I saw the roof of the Robert Burns cottage being thatched, and I decided that was what I wanted to do. There were no thatched roofs back in the north of England – in fact, the major business there was an atomic-power station – so my interest in thatching became something of a smart-aleck joke! But by the time I became a teenager I was able to pursue it seriously." McGhee's apprenticeship began at age 16, and after the requisite five years, along with the necessary college courses, he joined the famed East Anglia Master Thatchers Association. His award-winning work began attracting attention internationally, and McGhee tackled his first job in the United States in 1991. The consistent demand for thatched roofs has kept him here ever since.

Master thatcher Colin McGhee uses a wooden leggett to dress the thatch that has been laid around the eyebrow window of a house in Pennsylvania.

It's hard to say which is more beautiful in McGhee's thatched roof for this house in Bethlehem, PA: the meticulous thatching over the eyebrow window and its subtle repetition in the undulation over the tinier window to its right or the equally rhythmic design of the ridge line.

Typical Misconceptions

McGhee's American projects have ranged from numerous private residences across the country to the Bronx Zoo, the Jamestown Settlement and the Renaissance Fair in Sterling, NY. Yet despite the enthusiastic market for thatching that he has tapped here, McGhee regularly encounters a certain level of naiveté. "There are misconceptions about thatching that are typical in the United States, because this type of roofing just isn't around so much. People associate it with 'Gilligan's Island', you know, or tiki barns, and they don't tend to see it as a real or serious roof. 'What do you do when it rains?' and 'How do you keep the water out?' are questions that one hears frequently."

A thatched roof must have a minimum pitch of 45 degrees so it can effectively shed precipitation; a more shallow pitch will cause rain and snow to collect and eventually seep into the house. Correctly thatched, the roof doesn't require a sub-roof, and the tradition for the house's interior is to leave the underside of the thatching exposed over the wooden timbers. Some homeowners may have an aesthetic preference for a traditional interior ceiling, but if the thatch has been dressed properly, it will provide an attractive ceiling of its own and won't shed or permit water or insects to enter the house.

Two other perennial areas of confusion about thatching concern insulation and flammability. In fact, the innumerable tiny pockets of air that exist inside a thatched roof provide effective insulation against the extremes of both summer and winter: Norfolk reed, one of the most common thatching materials, has an R-value of 40. Far from being a fire hazard, thatched roofs are rated similarly to cedar shakes in fire resistance, thanks to the dense packing of the reed. (Additional fireproofing of the material is also available.)

Completed in early 1997, this timber-frame and stucco cottage in Bucks County, PA, was thatched by McGhee using water reed obtained from the nearby states of New York and Maryland.

The Thatcher's Art

The drying of the gathered reed is the first step in reed thatching – if applied wet, reed will shrink after bring installed. The dried reed is then collected into bundles, typically tied with twine, which measure approximately 2 ft. around and range from 3 to 7 ft. in length. Straw thatching requires more work, as the straw must first be cut and threshed before it can be gathered into bundles, or yealms. Unlike reed, straw is wetted down regularly while the thatcher installs it, to prevent the brittle material from breaking as it's worked. Straw, however, doesn't shrink as it dries, and so the completed roofline won't change its appearance.

The individually tied bundles of reed or straw are laid in horizontal courses that are affixed using hooks and sways. The hooks (also called crooks, l-pins or spikes) are made of ¼- or ⅜-in. iron rod and can measure from 8 to 12 in. long. One end is pointed, so the thatcher can drive it into the roof rafters, and the other is bent at a right angle. The bent end of the hook provides a staple-like grip to hold the sway, a rod of wood or ¼-in. steel, which secures the thatch to the rafters. The thatcher applies courses working up to the ridge and uses a wooden leggett to dress the bundles and tamp them into a uniform position. A lone master thatcher such as McGhee (who also hand forges all his own hooks) can thatch a roof that measures 1,000 sq.ft. in about three to four weeks.

This house in Orlean, VA, in a traditional English design, sports the very first roof thatched by McGhee in the U.S. He worked in his favored Scottish reed and provided the ridge lines with a handsome trim of sedge grass.

Above: The spirit of old Ireland took root in American soil when this beautiful house, a quintessential Irish cottage complete with three eyebrow windows, was transported from County Clare and rebuilt in Malakoff, TX. It may sport a rather simple ridge design, but for McGhee, this house is "one of our favorite buildings here in the United States."

Below: Hagrid's hut, as it looks in the recent smash Harry Potter movies, provided the model for this charming outbuilding, located in Saranac Lake, NY. This very sturdy hut was built with irregular pieces of granite, and the conical roof is made of water-reed thatch, McGhee's specialty.

There's nothing lowly about this kitchen addition in Clayton, GA, thanks to its striking thatched roof by McGhee. Note the subtle rhythm in the design of the ridge line, which cuts around the projecting chimney.

The ridge line, frequently made of sedge or rye straw, is cut with sheepshears into an eye-catching design. A knife-like billhook is used to cut the wood that holds it together – the liggers, wooden rods some 4 to 5 ft. long, which are used on the outer surface of the ridge, and the wooden cross rods employed for ornamentation between liggers. This area of thatching usually measures 1½ ft. above the ridge board and generally requires any chimney in the roofline to be built taller.

Water-reed thatch is typically laid in a 1-ft. depth above the purlin. When this thickness is applied to a sufficiently steep roof, the thatch is virtually guaranteed a long life span. A water-reed roof will last some 70 years with only minimal maintenance. A ridge made of straw, however, will need to be reworked every 10 to 20 years. As McGhee came to realize, straw thatching for entire roofs has proven far less effective in the U.S. than reed has: "The heat and humidity in America tend to break up the straw. There was one job where I ran out of straw for the ridge and substituted crushed reed, and it looked great. It also lasted much longer than the straw." For this reason, McGhee has come to specialize in making ridges as well as roof thatching of water reed.

Thatched roofs are ordinarily repaired by applying a new layer of thatch over the original. With thatch still something of a novelty in the U.S., McGhee has had few restoration jobs here; in England, however, he has taken on numerous such assignments, and discovered some old houses with roof thatching that measures up to 4 ft. in depth. Given the ever-increasing market for thatched roofs in America, the thatchers who work here can expect to find similarly dense American roofs undergoing restoration – sometime in the late-24th century! ◆

Fenestration and doors still await this house built in Olean, NY, but McGhee has already completed its breathtaking thatched roof, and topped it off with primary and secondary ridge lines, as well as a cap for the half-hipped dormer.

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Steel Casements for a Tudor Cottage

Seventy-five-year-old steel casement windows give a whole new meaning to the idea of replacement windows.

by Martha McDonald

This small Tudor house in Hastings-on-Hudson, NY, regained its charm when the owners replaced the no-longer-functioning aluminum replacement windows with 75-year-old steel casement windows that were supplied and refurbished by Seekircher Window Repair Corp.

What do you do with a charming, almost 75-year-old Tudor house that's equipped with aluminum replacement windows that no longer work? That's what Peter and Claire Filippelli asked themselves when they purchased their 1,728-sq.ft. home in Hastings-on-Hudson, NY, in 2002.

The answer was to replace the replacement windows with 75-year-old steel casement windows similar to the ones that were original to the 1929 house. Finding the windows was not so easy – there are very few companies that manufacture them. "I never even considered standard replacement windows," says Mrs. Filippelli. "We knew we wanted steel casement windows like those that were originally in the house. The difficulty was finding them. I called around looking for steel casement windows, but everyone wanted to provide us with new replacement windows." Luckily, Seekircher Steel Window Repair Corp. of Scarsdale, NY, keeps an inventory. "I have been collecting these windows ever since we went into business 26 years ago," says John Seekircher, who, with his brother Robert, runs the family business, which also includes a nephew Paul. "You have to recycle these windows, because it's hard to find companies making them today."

John Seekircher was able to look at two of the original steel casement windows that had been kept on the front of the house, allowing him to discover the name of the manufacturer, Fenestra. Although the firm is no longer in business, he found windows from the same supplier for the Filippelli house. "I identified what had been there and used windows from the same manufacturer, so basically the house is back to what it was originally," he says. "The aluminum replacement windows had probably been put in 15 or 20 years ago. These windows had failed; the balances were broken so they didn't stay up and the insulated glass was fogged so you couldn't see through them. That's what the mindset was then – rip everything out and put in replacements. That's why they call them replacement windows. Once you replace them, you have to keep replacing them."

New 75-Year Old Windows

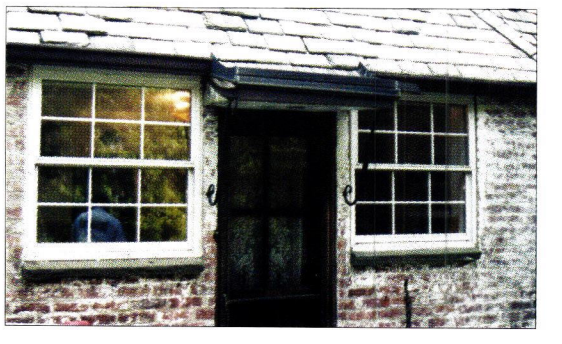
Seekircher replaced 10 white aluminum double-hung windows of various sizes in the Filippelli home with painted black steel casement windows that were already at least 75 years old. "We have a small house on a beautiful piece of property," says Mrs. Filippelli. "It looks like a little cottage, but those other windows were horrible, both in the way they looked and worked." It took about two weeks of work in the shop to clean, prime and reglaze the windows and to clean and polish the solid-brass hardware before they could be installed. In some cases, the windows didn't even need to be reglazed; the existing glass could just be cleaned. The actual installation took only two days.

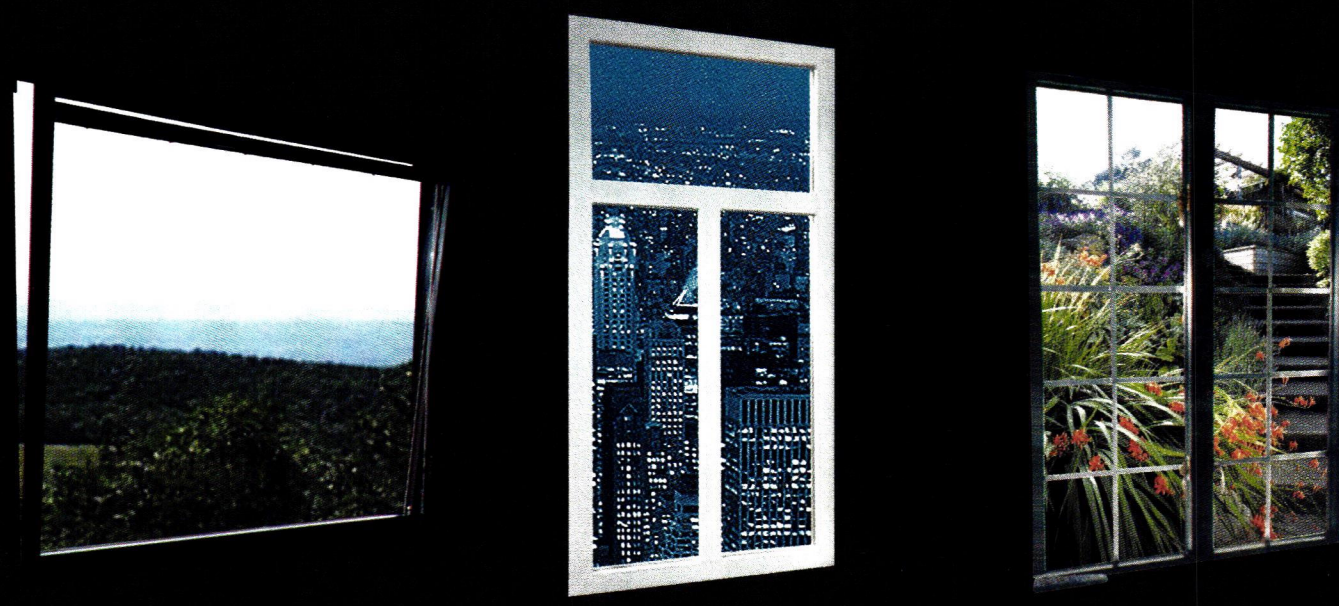
"The new old windows changed the whole look of the house," says Mrs. Filippelli. Once she located the Seekirchers, a few weeks later the house had its old character back. "You can't get the quality of older products in new windows," she adds. "Look how long these windows have already lasted. I don't plan to ever put another window in this house."

John Seekircher emphatically agrees with her assessment of the difference between the quality of windows now and then. While this particular job involved replacing aluminum windows with vintage steel casement windows, most of his business is repairing existing steel casement windows that owners want to keep in their homes and buildings.

Left: After the refurbished steel casement windows were installed, the entrance to the kitchen was back to its original appearance.

Below: These two kitchen windows are typical of the aluminum replacement models that had been installed in the Filippelli house about 15-20 years ago. The Seekirchers replaced them with 75-year-old 37x39-in. painted black steel casement windows that they had restored.





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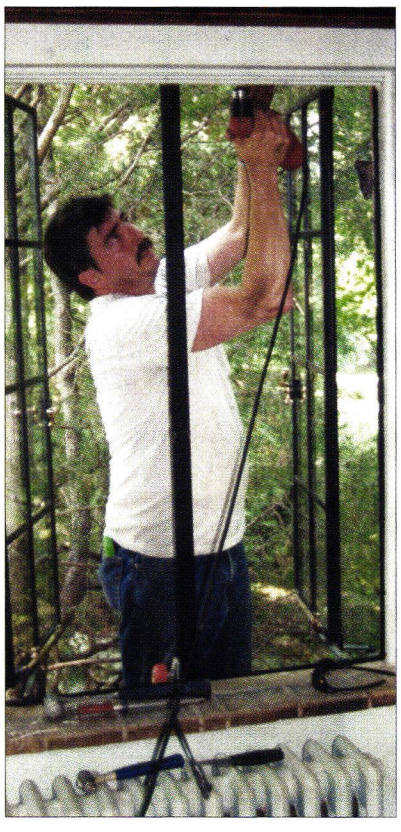
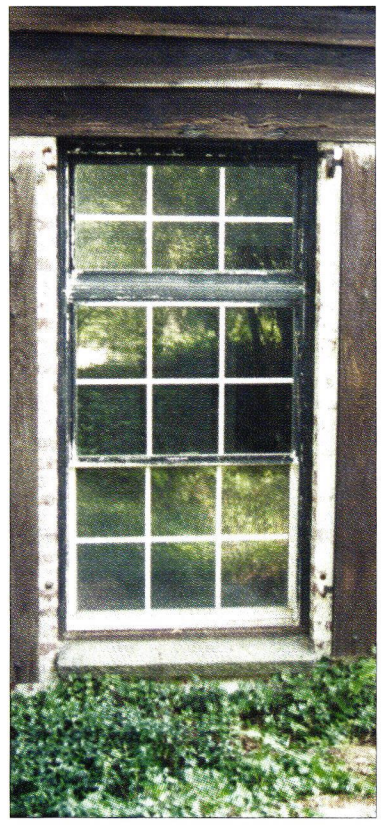


Robert Seekircher installs one of the larger (55 in. wide x 51 in. tall) vintage steel windows in the dining room. After refurbishing the windows in the shop, the firm installed them in two days. The new window (right) in the dining room provides a picturesque view of the woodsy yard.



Even though the window in the study was exceptionally large (37 in. wide x 73 in. tall), the Seekirchers were able to find a vintage model (right) with a transom at the top that fit the space. On the left is the worn-out aluminum window.

Built to Last

"We repair more than 6,000 windows a year all over the country," Seekircher says. "You never need to replace them; the steel windows that are already there are extraordinary. In addition, the cost of repairing steel casement windows is a fraction of the replacement cost." He cites one job in which the repair of the steel casement windows in the house cost the owner $7,000, while replacement windows of a similar style would have cost approximately $200,000. "Plus," he says, "repairing the windows versus replacing them has so much less impact on the building."

One of the firm's high-profile jobs was repairing the windows in Frank Lloyd Wright's Fallingwater in Mill Run, PA, working with WASA Architects of New York City. "We did the same job there that we do in any house," says Seekircher. "The only difference is that it was like working in a fishbowl because of all of the tours. It was a great honor working on that house.

"People are starting to respect old buildings," Seekircher says. "They are happy to find information on how to restore and save them. They want the look and feel of the old houses." Educating people to the advantages of the older windows is still a big part of his job. "Lots of people still want the new replacement windows, because they think they are more airtight," he says. "I explain to them that only 12 to 15% of the heat loss in a house is through the windows. Plus, these windows let the house breathe the way it's supposed to. These windows have stood the test of time. They have been neglected for 60, 70, 80 years and they're still working." ◆

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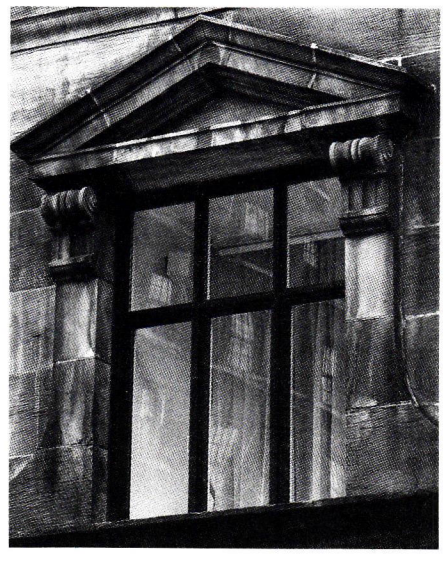

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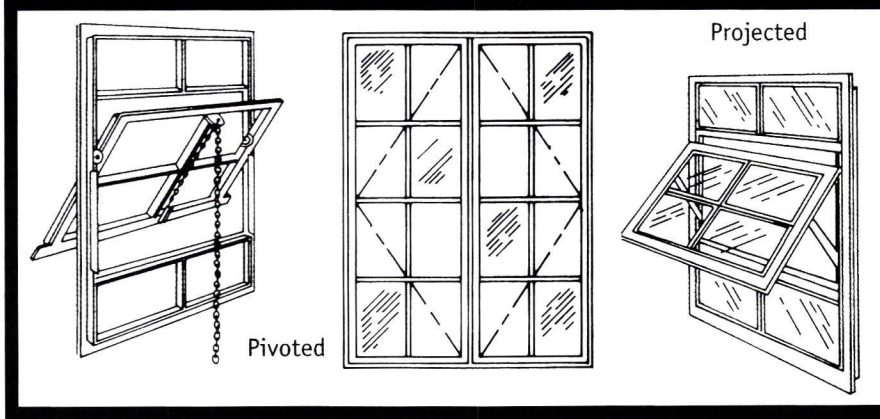

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Manufacturer of "invisible" aluminum storm windows: interior & exterior; storm & screen combo, round top, curved/bent & custom shapes; mechanical, magnetic & sliding-lift-out fastenings; storm windows mounted outside or inside prime window; acrylic, lexan, UV-resistant, standard, tempered & low-E glass, bowed & laminated glass & obscure-glass glazing. *Write in No. 690*

Cityproof Windows
718-786-1600; Fax: 718-786-2713
www.cityproof.com
Long Island City, NY 11101

Custom fabricator of interior window systems: aluminum, storm & screen combos, round top & custom shapes; mechanical fastenings; acrylic, lexan, UV-resistant, standard, low-E & tempered glass, laminated & etched glazing. *Write in No. 2390*

Cityproof manufactured and installed the interior storm windows for this apartment building on West 67th Street in New York City.

◆ ◆ ◆

Coppa Woodworking
310-548-4142; Fax: 310-548-6740
www.coppawoodworking.com
San Pedro, CA 90731

Manufacturer of screen & storm doors in 160 styles: odd sizes; arch-top doors & built-in dog doors; wood window screens; any color stain or paint; pine, Douglas fir, red oak, mahogany, cedar & redwood; Adirondack furniture. *Write in No. 9600*

◆ ◆ ◆

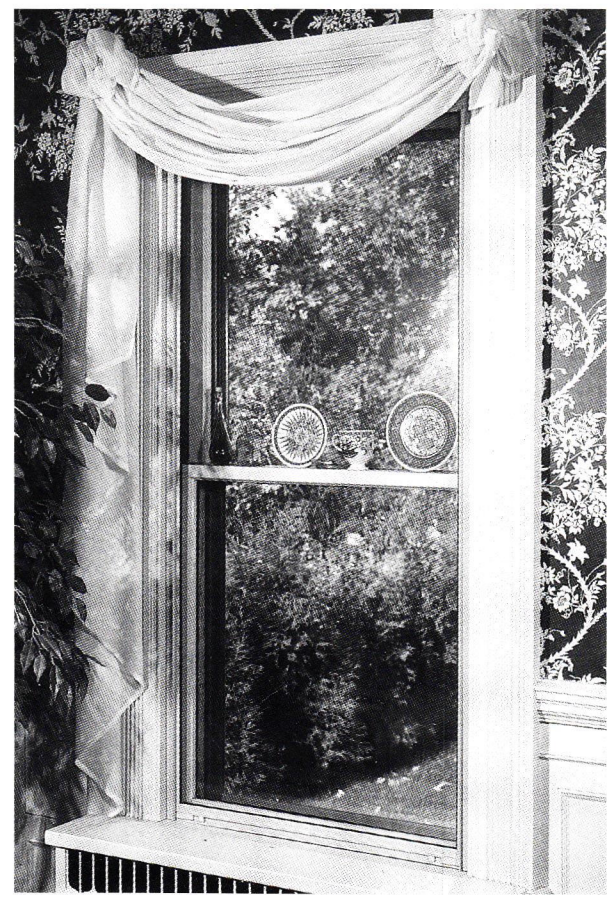
Drums Sash & Door Co., Inc.
570-788-1145; Fax: 570-788-3007
www.drumssashanddoor.com
Drums, PA 18222

Custom fabricator of replacement sash: entryways & doors, windows, moldings, raised-panel shutters & storm & screen doors; all sizes & layouts; large choice of profiles & woods; combination storm & screen doors with aluminum or brass wire; crossbuck combinations; pine, red oak, birch & Spanish cedar. *Write in No. 1139*

◆ ◆ ◆

Innerglass Window Systems
800-743-6207; Fax: 860-651-4789
www.stormwindows.com
Simsbury, CT 06070

Manufacturer of custom glass interior storm windows for energy conservation & soundproofing: low-E glass, UV-blocking film & acrylic; magnetic- & compression-fit fastenings; easy do-it-yourself installation. *Write in No. 909*



Interior storm windows supplied by Innerglass Window Systems are designed to eliminate drafts and reduce sound infiltration.

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- National Park Service
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- Society of The Cincinnati Anderson House, D.C.
- John Marshall House
- Stratford Hall Plantation
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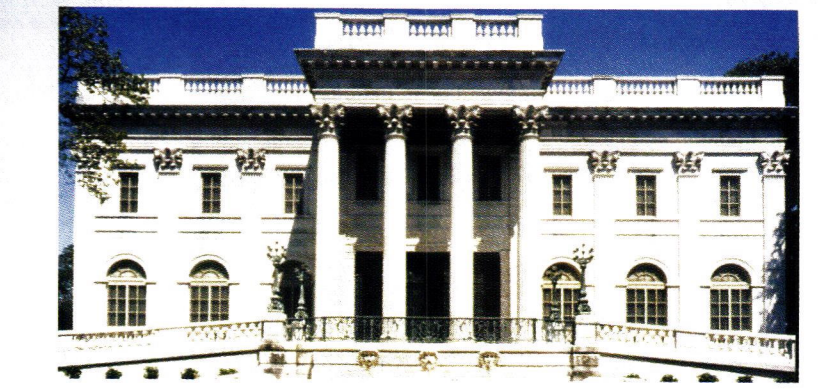
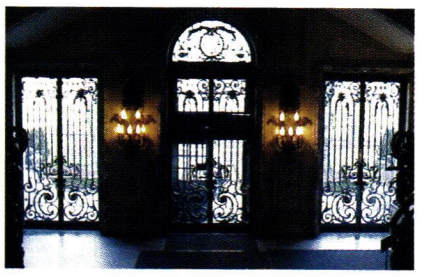
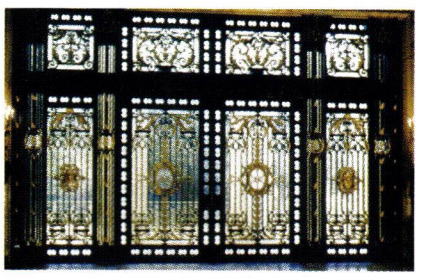


The Flexible MAGNASEAL™ Window

A magnetic interior insulating/acoustic window that installs over or within the existing window cavity. It is not a storm or prime replacement window, yet its performance rivals or exceeds prime replacement windows!





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maintains the central Website for historically styled products and services on the Internet —products used for restoration, renovation, and new construction projects. There's more information and links to historical products than you'll find on any other site.

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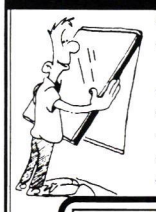
Storm Windows



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Easy-to-install Flexite Winsulator interior storm windows are custom manufactured by Petit Industries in vinyl or acrylic.

Petit Industries, Inc.
800-94-PETIT; Fax: 207-283-1905
www.petitindustries.com
Biddeford, ME 04005

Manufacturer of the MagnaSeal interior storm window: superior thermal & acoustic performance; self-stacking system for easy access to primary window; virgin non-yellowing acrylic; real wood veneer & custom paint options; Hide-Away retractable screen for windows & doors. *Write in No. 4240*

Phelps Co.
802-257-4314; Fax: 802-258-2270
60 Elm St.
Brattleboro, VT 05301

Manufacturer & designer of traditional hot-forged solid-brass door & window hardware: sash pulleys & chains, casement stays, locks, lifts, storm & screen hangers, bronze screen wire & sash weights; same-day shipping for most items. *Write in No. 6001*

◆ ◆ ◆

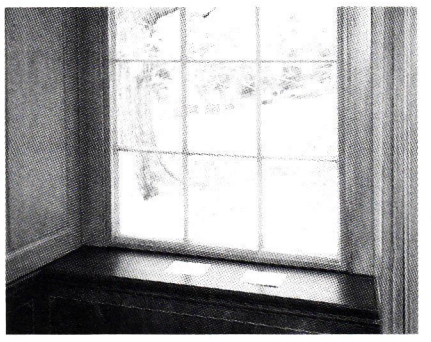
Rohlf's Stained & Leaded Glass Studio, Inc.
800-969-4106; Fax: 914-699-7091
www.rohlfstudio.com
Mount Vernon, NY 10550

Custom fabricator of art glass: leaded- & colored-glass patterns; antique stained, leaded & painted/fired glass; protective & storm glazing; beveled, etched/sandblasted & fused/slumped glass; new designs & replication of historical patterns; systems for restoring casement windows; custom designs & stained-glass repair/restoration. *Write in No. 6240*

◆ ◆ ◆

Thermo-Press Corp.
800-827-9147; No fax
www.thermopresscorp.com
Richmond, VA 23230

Manufacturer of interior storm windows for historic properties & building renovations: full range of storm window types; attach with Velcro; inter-gasket seal. *Write in No. 5320*



Thermo-Press designed this interior storm window, improving energy efficiency by 60%.

◆ ◆ ◆

Wood Window Workshop
800-724-3081; Fax: 315-733-0933
839 Broad St.
Utica, NY 13501

Custom fabricator of wood windows & doors: any size, shape & species; traditional mortise-&-tenon joinery; interior, exterior & French doors; arched & bent units, moldings, casings, architectural millwork & wood screen & storm windows & doors; historical reproduction. *Write in No. 9640*

◆ ◆ ◆

Woodstone Co.
802-722-9217; Fax: 802-722-9528
www.woodstone.com
Westminster, VT 05158

Manufacturer of custom wood windows & doors: coped mortise-&-tenon joinery; all shapes, sizes & configurations; wide array of wood species; screen doors; storm windows; historical & landmark specifications. *Write in No. 8430*

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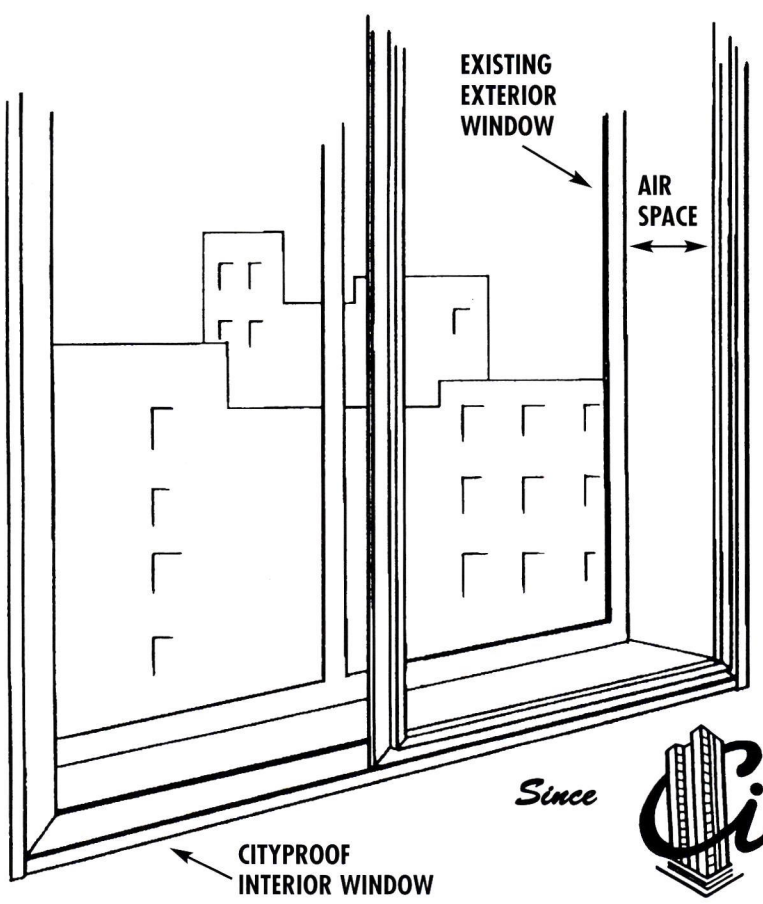

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The **Cityproof Interior Window** works in conjunction with the existing exterior window to create a Buffer Zone (air space) that seals out noise, cold, draft, and dirt.

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THE PALLADIO AWARDS are named in honor of Andrea Palladio, the Renaissance architect who created modern architecture for his time, while using models from the past for inspiration and guidance.

PALLADIO AWARDS for Residential Architecture will be awarded in five categories:

- **Restoration & Renovation**
- **Sympathetic Addition & Adaptive Reuse**
- **New Design & Construction under 5,000 sq. ft.**
- **New Design & Construction over 5,000 sq. ft.**
- **Exterior Spaces: Gardens & Landscapes**

Corresponding awards will also be made for commercial and civic projects.

Judging is by a panel of distinguished design professionals selected by the editors of **PERIOD HOMES** and **TRADITIONAL BUILDING**.

The deadline for entries is November 15, 2004.

For details on the Award Program, judging criteria and submission requirements, go to our web site www.period-homes.com, fax queries to (718) 636-0750 or write in no. 7777 on the Product Information Card in this issue.

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- John Marshall House
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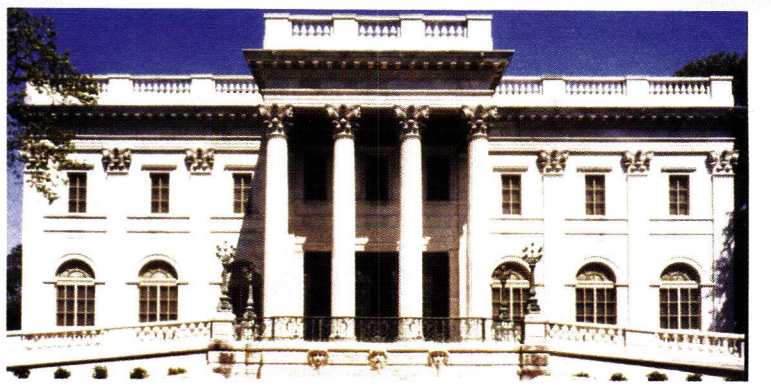
WRITE IN NO. 5320

"When contacting companies you've seen in the issue, please tell them you saw their listing in Period Homes."
— The Editors



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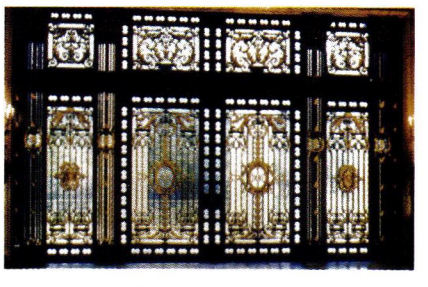

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WRITE IN NO. 4240

BUYING GUIDE TO
SHUTTERS & SHUTTER HARDWARE

The Raleigh combo, on the left, is an example from Atlantic Shutter Systems' inventory.

Atlantic Shutter Systems
877-437-0608; Fax: 843-752-0111
www.atlanticshuttersystems.com
Latta, SC 29565

Manufacturer of custom exterior shutters: solid-panel & fixed-slat; lifetime structural warranty, 10-year finish warranty; restoration grade; hand crafted. *Write in No. 1177*

◆ ◆ ◆

Ball & Ball Hardware
610-363-7330; Fax: 610-363-7639
www.ballandball-us.com
Exton, PA 19341

Custom fabricator of hardware: cabinet hinges, knobs & handles, sash & casement hardware, window locks, shutter hardware, transom operators, andirons, escutcheons, door knockers, lever handles, locksets, push plates, door bells & door stops; brass, cast iron, bronze, wrought iron & steel; new reproduction & antique/reconditioned hardware. *Write in No. 2930*

◆ ◆ ◆

Beech River Mill
603-539-2636; Fax: 603-539-1384
www.beechrivermill.com
Center Ossipee, NH 03814

Supplier of louvered doors & exterior wood shutters & hardware: duplication & authentic reproduction in any size & period; consultation, design, site visit & installation services; custom work. *Write in No. 4110*

This shutter, shutter ring and shutter dog were custom designed by Beech River Mill for a private residence in Connecticut.

Drums Sash & Door Co., Inc.
570-788-1145; Fax: 570-788-3007
www.drumssashanddoor.com
Drums, PA 18222

Custom fabricator of replacement sash: entryways & doors, windows, moldings, raised-panel shutters & storm & screen doors; all sizes & layouts; large choice of profiles & woods; combination storm & screen doors with aluminum or brass wire; crossbuck combinations; pine, red oak, birch & Spanish cedar. *Write in No. 1139*

◆ ◆ ◆

Eugenia's Antique Hardware
770-458-1677; Fax: 770-458-5966
www.eugeniaantiquehardware.com
Chamblee, GA 30341

Supplier of vintage hardware & antique bathroom accessories: 1890s to 1950s; no reproductions; door plates, bolts, knobs & shutter hardware; mortise locks; glass, porcelain, steel & bronze; complete sets; interior & exterior. *Call for more information.*

◆ ◆ ◆

Jamar International
530-333-0590; Fax: 530-333-0594
www.antiquedoorwindowhardware.com
Greenwood, CA 95635

Importer & supplier of antique designer hardware: for doors, windows, shutters, gates, cabinets & more; wrought iron, brass, bronze & pewter; rust & common finishes; Louis IV to Art Deco styles; hinges, knockers, pull handles, push plates, lighting, ring handles, cremone bolts, escutcheons & more. *Write in No. 360*

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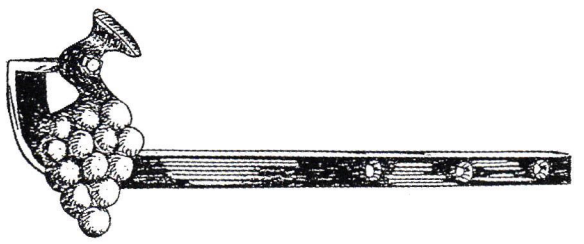
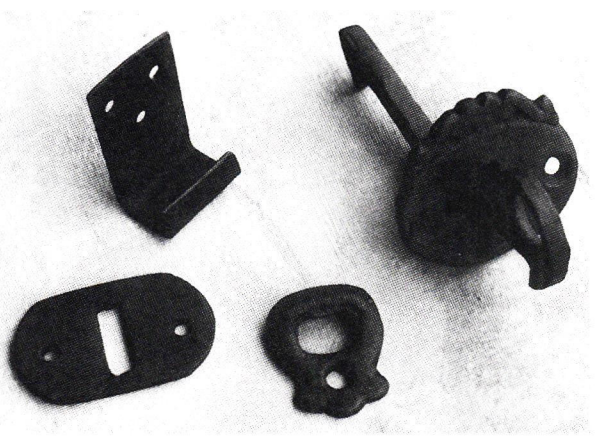


James Peters & Son manufactures this 15¾-in.-long shutter dog, model #30-LA., with a cast-iron head.

James Peters & Son, Inc.
215-739-9500; Fax: 215-739-9779
1936 N. Front St.
Philadelphia, PA 19122

Manufacturer of period-style hardware: for exterior shutters, doors & gates; wrought steel with black finish & wrought iron; stable hinges & doors, shutter dogs, pull rings, door latches & more; new reproduction hardware. *Write in No. 1240*

◆ ◆ ◆



This reproduction Victorian cast-brass shutter latch set is available from Kayne & Son.

Kayne & Son Custom Hardware
828-667-8868; Fax: 828-665-8303
www.customforgedhardware.com
Candler, NC 28715

Custom fabricator of hardware: functional & dummy, straight or curved strap hinges, shutter dogs & hooks; various designs of HL hinges, cane & drop surface bolts, locks & locksets, custom butt hinges, knockers & sash locks; fireplace grates, tools & accessories; weathervanes; hand-forged or cast-bronze thumb-latch sets or dummy handles & pulls; hand-forged steel, wrought iron/steel & cast brass/bronze; custom restoration & reproduction; brochure $5. *Call for more information.*

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Kestrel Mfg. Co.
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www.diyshutters.com
Stowe, PA 19464

Manufacturer of European- & American-style shutters: interior & exterior; classic & radius profiles; custom sizes & designs; residential & commercial; complete selection of hardware; closet & cabinet doors, folding screens & gate hardware; wrought-iron, brass, bronze, cast-iron, plastic & stainless-steel hardware. *Write in No. 7990*

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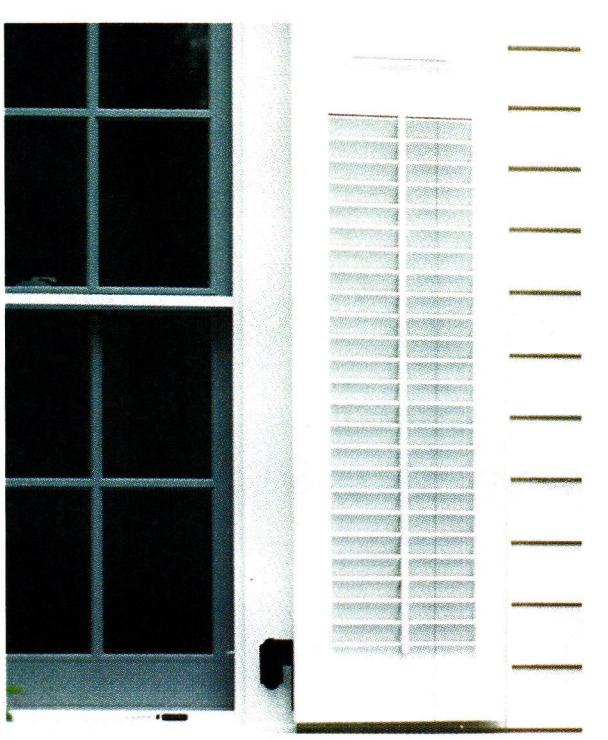
Kingsland Co. Shutters
860-542-6981; Fax: 860-542-1752
www.kingsland-shutters.com
Norfolk, CT 06058

Manufacturer of exterior shutters in Honduras mahogany: louvered, raised-panel, cutouts & reproductions; mortise-&-tenon construction; copper caps, fixed control rods & hardware; paneled & louvered arched tops. *Write in No. 196*



Kingsland Co. manufactured this Honduras mahogany shutter using mortise-and-tenon joinery.

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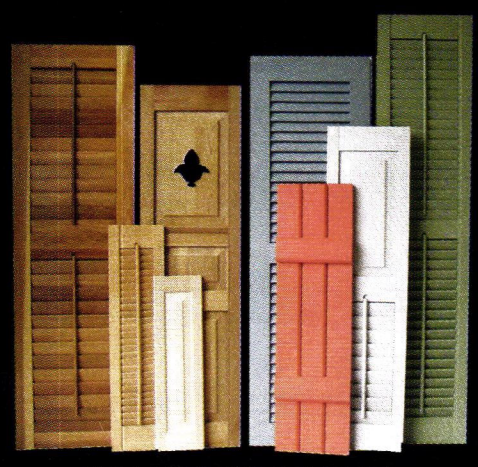

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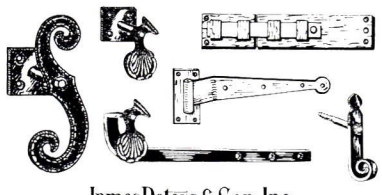
Traditional Shutter Hardware



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Sold through hardware distributors

WRITE IN NO. 1240

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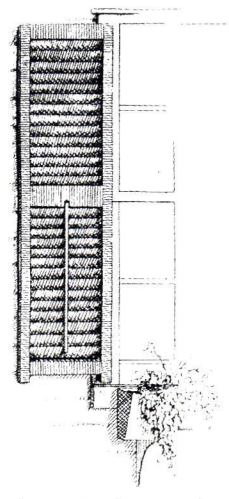
that are history...
Complete Service Provided



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- installation

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Ossipee, NH 03814
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www.beechrivermill.com
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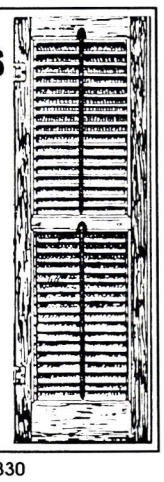
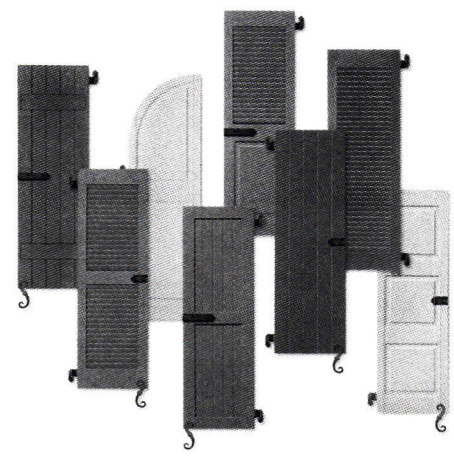
706-672-1214
www.shutterdepot.com



WRITE IN NO. 6830



Atlantic Shutter Systems is the premier manufacturer of operable and fully functional composite shutters. Each shutter is custom manufactured and meticulously hand-assembled to fit the exact opening size. Shutters are mounted with black powder-coated stainless steel hardware that is traditionally correct.

Atlantic Shutter Systems
A Tapco International Company

www.atlanticshuttersystems.com 866.288.2726

WRITE IN NO. 1177

W O O D S H U T T E R S

OH, THE LUXURY *of living* IN THE PAST.

8 0 0 . 2 5 0 . 2 2 2 1

Surely, you understand. The near-fanatical attention to historical authenticity. A passionate commitment to handcrafting. And an obsession with the finest materials.

If you insist upon working with companies who share these timeless values, you may want to join the ranks of prestigious architects and builders who choose only Timberlane® for their projects. Whether we are building replacement shutters so perfectly authentic they hang in Colonial Williamsburg, or brand-new shutters so finely crafted they hang on the recently-completed British Embassy in Washington D.C., every shutter we create is built to last for generations.

It's a process that requires an artisan's eye and a decades-long love affair with wood. Specifically, hand-selected Western Red Cedar, renowned for its beauty, durability, and resistance to insects and decay. Timberlane craftsmen make nothing but shutters, using mortise and tenon peg construction, recognized as the strongest joint known to man and ensuring shutters that will hang straight and true for years on end. After the intricate woodwork is complete, each order is hand-primed with premium Cabot® millwork primer and shipped expeditiously to the site, along with elegantly lush copper capping to be applied after painting. The shipping, in fact, is the only step of the process that is rushed; every other facet of our process is steeped in the traditions of craftsmanship. Methodical, painstaking and meticulous.

The reward is the kind of perfection you're known for in your work. And because your Timberlane order is always completely custom, you may specify, match or create panel configurations, combinations, radius tops and cut-outs, as well as choose from a staggering array of hand-forged period hardware. Timberlane's professional sales and customer service staff is also available to offer assistance, recommend products, track your order, and follow up on every detail.

We look forward to working together with you in the past. Call for the catalog or speak with one of our professional shutter consultants at 1-800-250-2221. Or visit us at timberlane.com.

WRITE IN NO. 1056

BUYING GUIDE TO
SHUTTERS & SHUTTER HARDWARE

Maguire Iron Corporation
510-234-7569; Fax: 510-232-7519
www.maguireironcorporation.com
Richmond, CA 94801

Manufacturer, custom fabricator & importer of door, window & shutter hardware: knobs, escutcheons, locksets, hinges, door knockers, door bells, push plates, kick plates, lever handles, cremone bolts & pocket-door hardware; brass, bronze, wrought iron, rust & pewter; 17th-century, Art Deco & other styles. *Write in No. 7600*

◆ ◆ ◆

Mitchell, D.C.
302-998-1181; Fax: 302-994-0178
www.dcmitchell.org
Wilmington, DE 19804

Supplier of reproduction period door, window & shutter hardware: box locks, strap hinges, shutter tiebacks & more; hand forged & hand cast in wrought iron & cast bronze. *Write in No. 2800*

◆ ◆ ◆

Ohline Corp.
310-327-4630; Fax: 310-538-5742
1930 West 139th St.
Gardena, CA 90249

Supplier of custom shutters & louvered doors: wide (4 sizes, 3 profiles) & narrow louvers; arches, sunbursts, slope, quadrants & shoji screens; residential & commercial; wholesale only. *Write in No. 387*

◆ ◆ ◆

Old Smithy Shop
603-672-4113; Fax: Same as phone
www.oldsmithyshop.com
Brookline, NH 03033

Custom fabricator of hand-forged, hand-crafted Early American hardware: cabinet, gate, door, window, barn & shutter hardware; latches, pulls, butterfly & H & HL hinges, cockshead & pintle strap hinges & door knockers; window locks & pins & curtain holdbacks & rods; fireplaces accessories; historic consultations. *Write in No. 285*

◆ ◆ ◆

Shutter Depot
706-672-1214; Fax: 706-672-1122
www.shutterdepot.com
Greenville, GA 30222

Supplier of interior & exterior shutters: 2½-in. movable louvers; raised-panel & fixed louvers; finished or unfinished; custom & stock; shutter hardware. *Write in No. 6830*

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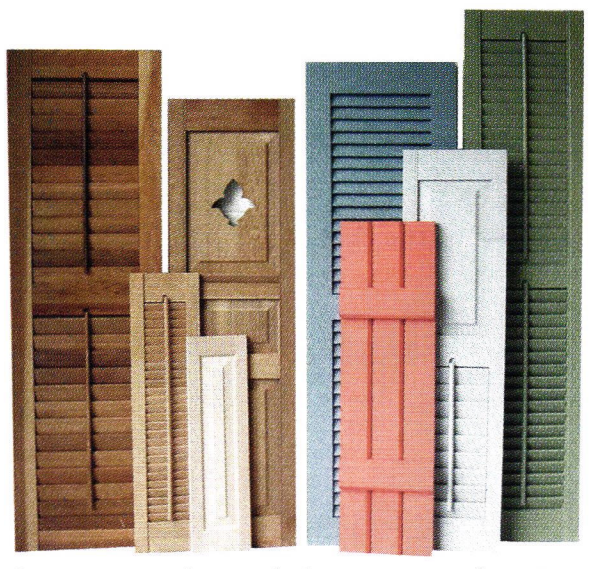


Shuttercraft custom designs and fabricates interior and exterior shutters with many size and style options.

Shuttercraft, Inc.
203-245-2608; Fax: 203-245-5969
www.shuttercraft.com
Guilford, CT 06437

Manufacturer of wood shutters: interior & exterior; traditional styles in all sizes; movable & fixed louvers, board & batten, raised panels, cutouts, hardware & full painting services; unfinished, primed or fully painted; hinges, holdbacks & custom arches; poplar, basswood & red oak; nationwide shipping. *Write in No. 5005*

◆ ◆ ◆

Timberlane Woodcrafters, Inc.
800-250-2221; Fax: 215-616-0753
www.timberlane.com
North Wales, PA 19454

Manufacturer of hand-crafted & custom exterior & interior wood shutters: custom sizes in more than 25 historically accurate standard styles; solid kiln-dried western red cedar; traditional mortise-&-tenon joinery & hardwood peg assembly; complementary capping; reproduction shutter hardware including custom hand-forged tiebacks, hinges, bolts, locks & rings; full catalog available online. *Write in No. 1056*

The Classic shutter, fabricated by Timberlane, has 2½-in. louvers and can be used for interior or exterior applications.

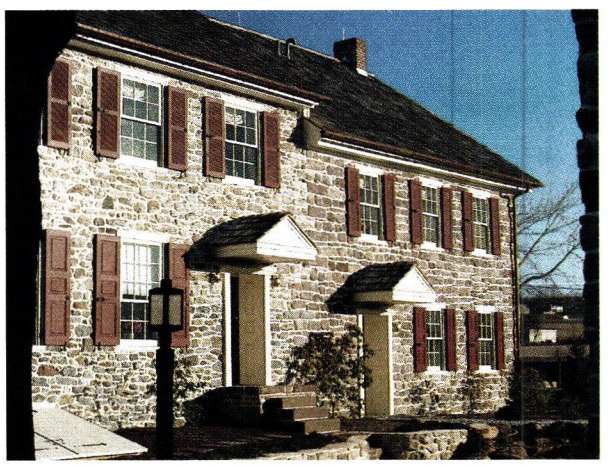
◆ ◆ ◆

Ultra Hardware Products
800-426-6379; Fax: 800-858-7210
www.ultrahardware.com
Pennsauken, NJ 08110

Manufacturer of the Westmore collection of locksets & door & home hardware: hand-crafted classic American & European patterns; brass, forged brass & iron, polished brass, lifetime-finish polished brass, satin nickel, oil-rubbed bronze & black finishes. *Write in No. 413*

Vixen Hill
800-423-2766; Fax: 610-286-2099
www.vixenhill.com
Elverson, PA 19520

Manufacturer of blind-pocketed & teak-pegged shutters: custom sizes in more than 15 styles; louvered & paneled; pair sizes to 6x10 ft.; shutter hardware; modular porch system with many architectural inserts. *Write in No. 1230*



Vixen Hill manufactured the old-growth red cedar shutters and the shutter hardware for this stone home.

www.period-homes.com

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PRODUCTS & SERVICES FOR RESIDENTIAL ARCHITECTURE

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maintains the central web site for historically styled products and services on the internet. There's more information and links to historical products than you'll find on any other site.

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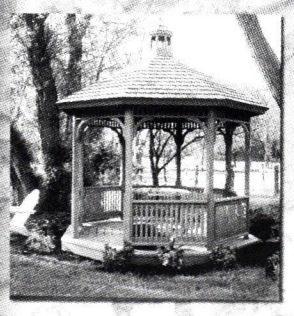
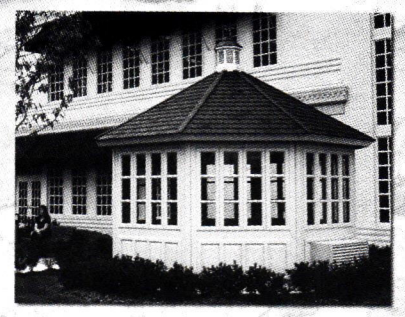
www.period-homes.com

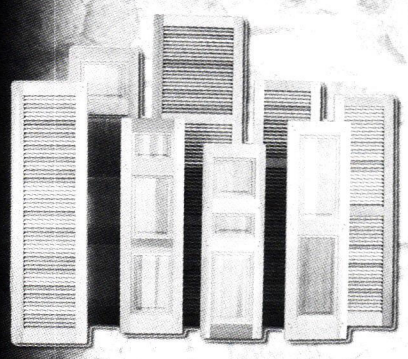
Vixen Hill Manufacturing

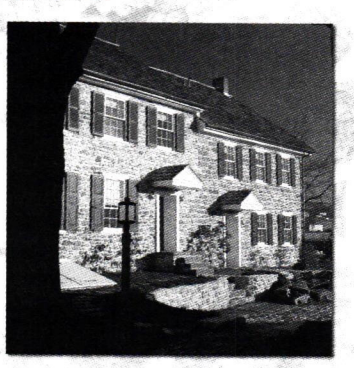
Gazebos & Garden Houses



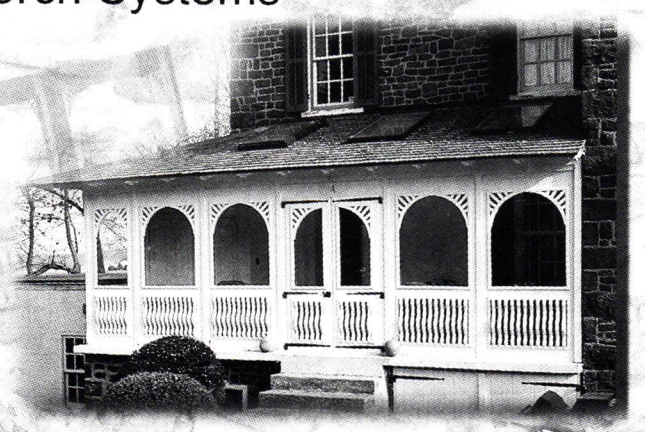


Shutters & Hardware





Porch Systems



800-423-2766

www.VixenHill.com

WRITE IN NO. 1230 FOR SHUTTERS, NO. 7100 FOR GAZEBOS & NO. 655 FOR PORCH SYSTEMS

We Can Be Very Helpful.

If you have any kind of design problem involving shutters or louver doors please do not hesitate to call us toll free to see if we can be of some assistance. We have been working with architects, specifiers, interior designers, and contractors for over forty years. Since 1975, more than five thousand professionals have attended our seminars involving the design and use of louvered products.

We start with rough lumber from the woods of the world and process it in our modern factory. No job is too large or too small. Ohline shutters are seen in virtually every milieu on five continents - From palaces to humble cabins, churches to casinos, grand hotels to modest motels, from restoration projects to the very latest in design, and in tens of thousands of residences throughout the United States and elsewhere in the world - We have done it all.

Please give us a call...we're easy to work with.

Plus, our Gemini Vinyl shutters with cedar core frame parts and rugged tilting mechanism are perfect for commercial projects involving potential rough usage such as restaurants, hospitals or motels. Their beauty is easily maintained and they are fire marshal rated.

Call 1.800.585.3197

www.ohline.net

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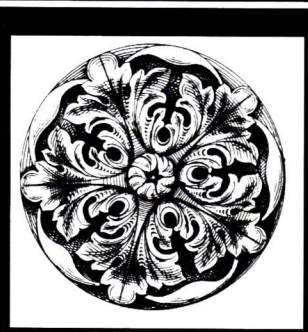

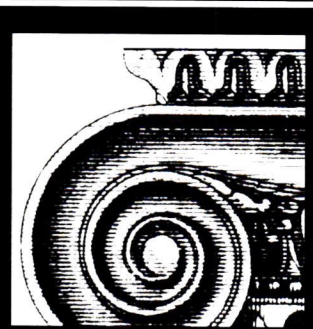

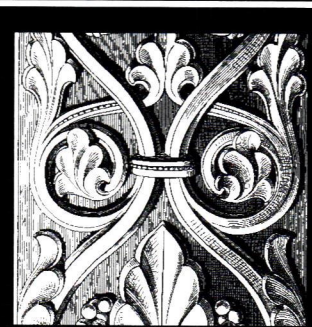

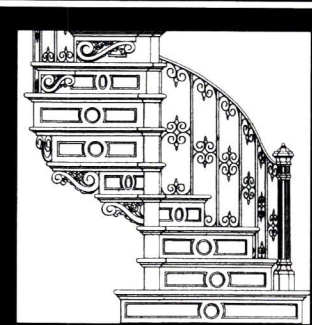

www.period-homes.com

Surf *the* Industry

Online data & links for more than 452 suppliers of products & services for restoration, renovation and historically styled new construction for residential projects.

BUYING GUIDE TO WINDOW HARDWARE

A&S Window Associates, Inc.
718-275-7900; Fax: 718-997-7683
www.aswindowassociates.com
Glendale, NY 11385

Manufacturer of custom steel windows & doors: graceful site lines to replicate historic landmark windows or modern design; variety of hardware & finishes; casement, pivot, awning, projecting, fixed-lite & round-top windows. *Write in No. 8350*

◆ ◆ ◆

Al Bar-Wilmette Platers
800-300-6762; Fax: 847-251-0281
www.albarwilmette.com
Wilmette, IL 60091

Restorer of antique door & window hardware: clean, polish, plate, repair & lacquer; plated & antique finishes; polish, antique & satin in antique brass, bronze, copper, pewter, nickel & chrome; large collection of salvaged hardware; duplication services; window locks, sash lifts & casement hardware; doorknobs, door plates, locks & pocket-door hardware; works with contractors, architects, interior designers & individual homeowners. *Write in No. 97*

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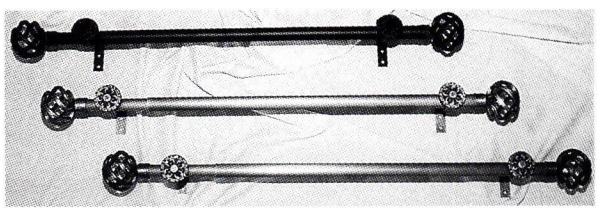

Alhambra Hardware fabricates a distinctive range of decorative drapery accessories for residential applications.

Alhambra Hardware Co.
800-461-0060; Fax: 416-780-1814
www.alhambra-hardware.com
Toronto, ON, Canada M6B 1V9

Designer & manufacturer of Curtains Up decorative drapery hardware: rods, rings, finials, brackets, tiebacks & accessories; cast resin & forged & cast iron & aluminum; sold through distributors & contract manufacturing. *Write in No. 470*

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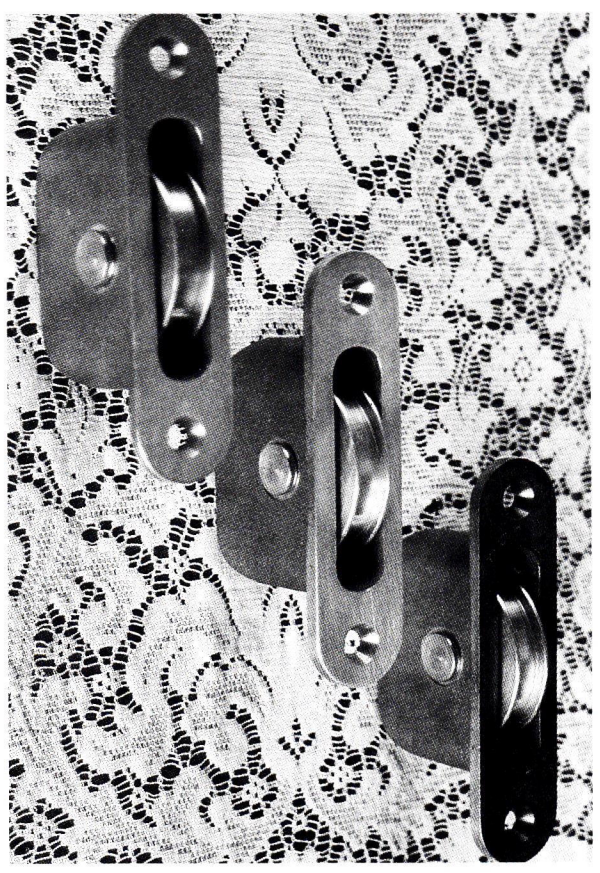

Architectural Resource Center supplies brass and bronze sash pulleys in many sizes and finishes.

Architectural Resource Center
800-370-8808; Fax: 603-942-7465
www.aresource.com
Northwood, NH 03261

Supplier of hardware: doors, windows, cabinets & millwork; window pulleys in cast bronze & brass; custom weights; awning hardware, window locks & more. *Write in No. 1670*

◆ ◆ ◆

Ball & Ball Hardware
610-363-7330; Fax: 610-363-7639
www.ballandball-us.com
Exton, PA 19341

Custom fabricator of hardware: cabinet hinges, knobs & handles, sash & casement hardware, window locks, sash lifts, shutter hardware, transom operators, andirons, escutcheons, door knockers, lever handles, locksets, push plates, door bells & door stops; brass, cast iron, bronze, wrought iron & steel; new reproduction & antique/reconditioned hardware. *Write in No. 2930*

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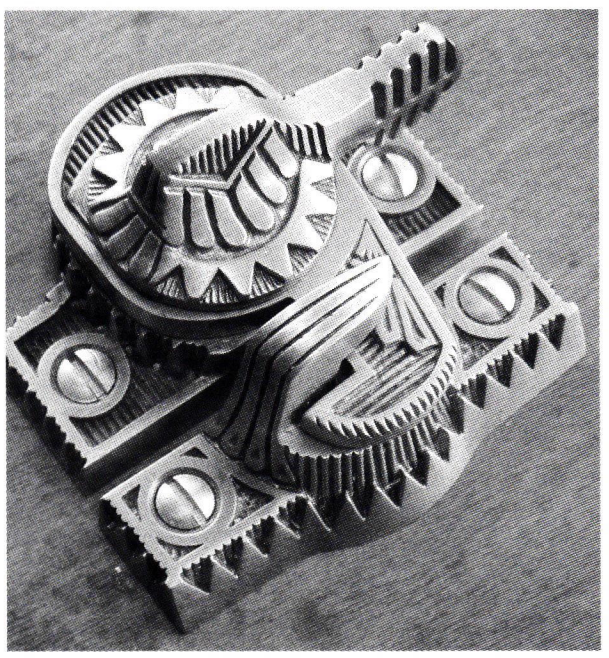


This replication of the Victorian Windsor sash window lock is available from Cirecast.

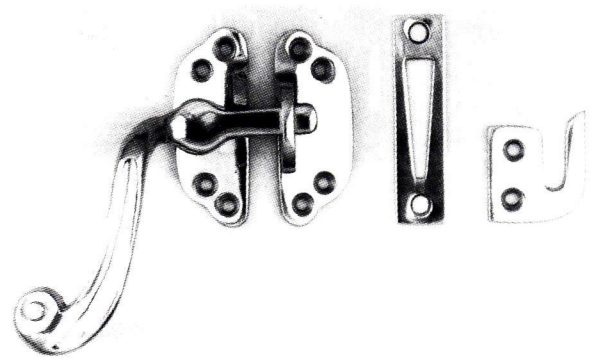
Cirecast, Inc.
415-822-3030; Fax: 415-822-3004
www.cirecast.com
San Francisco, CA 94124

Manufacturer of museum-quality reproduction door & window hardware, historical lighting & decorative metalwork from American manufacturers of the 19th & 20th centuries: large-scale custom work; knobs/escutcheons, locksets, hinges, door knockers, door bells, push & kick plates, lever handles, cremone bolts, pocket-door hardware, window locks & lifts & wall-mounted exterior lighting; brass, bronze, steel, nickel & ductile & cast iron. *Write in No. 244*

◆ ◆ ◆

Craftsmen Hardware Co.
660-376-2481; Fax: 660-376-4076
www.craftsmenhardware.com
Marceline, MO 64658

Manufacturer & custom fabricator of copper hardware: knobs, escutcheons, locksets, hinges, door knockers, door bells, push & kick plates, lever handles & drapery & pocket-door hardware; Arts & Crafts style. *Write in No. 6980*



These casement fasteners, from left to right, model #82A-L, MS and RS, were manufactured by Crown City Hardware.

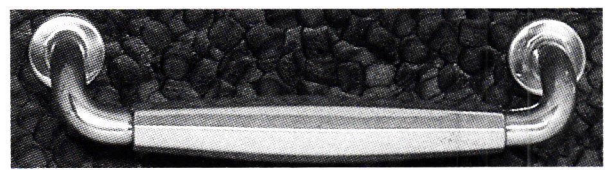
Crown City Hardware Co.
626-794-1188; Fax: 626-794-2064
www.restoration.com
Pasadena, CA 91104

Supplier of residential hardware: glass knobs, bin pulls & door & window hardware; mailboxes; Victorian & Arts & Crafts styles; wrought iron/steel & brass. *Write in No. 432*

◆ ◆ ◆

E.R. Butler & Co.
212-925-3565; Fax: 212-925-3305
www.erbutler.com
New York, NY 10012

Manufacturer of Early American door, window & furniture hardware: 19th-century shell-shanked crystal, porcelain & wood trimmings; brass, bronze, nickel-silver & wrought iron; custom-plated & -patinated finishes; preservation & restoration services; consultation services for architects & builders. *Write in No. 2260*



E.R. Butler manufactured this sash lift, model #555.

◆ ◆ ◆

Eugenia's Antique Hardware
770-458-1677; Fax: 770-458-5966
www.eugeniaantiquehardware.com
Chamblee, GA 30341

Supplier of vintage hardware & antique bathroom accessories: 1890s to 1950s; no reproductions; door plates, bolts & knobs; shutter hardware; mortise locks; glass, porcelain, steel & bronze; complete sets; interior & exterior. *Call for more information.*

◆ ◆ ◆

European Hardware & Finishes/Gerber Hinge Co.
800-643-7237; Fax: 323-655-8533
www.gerberhinge.com
Los Angeles, CA 90036

Importer of decorative European period hardware: Louis XV & XVI, Empire, Directoire & Art Deco; hinges, barrel hinges, casters, decorative nails, knobs, escutcheons, locksets, door knockers, cremone bolts, window hardware & more; brass, iron & bronze; custom finishes. *Write in No. 2540*

◆ ◆ ◆

House of Antique Hardware
888-223-2545; Fax: 503-233-1312
www.houseofantiquehardware.com
Portland, OR 97232

Supplier of door, window, cabinet, electrical & bath hardware: stair rods & dust corners; brass tube, solid brass & plated steel; original antique & vintage reproductions; Victorian & Arts & Crafts. *Write in No. 339*

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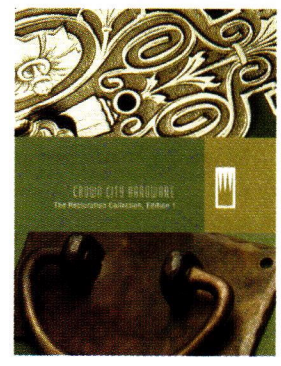
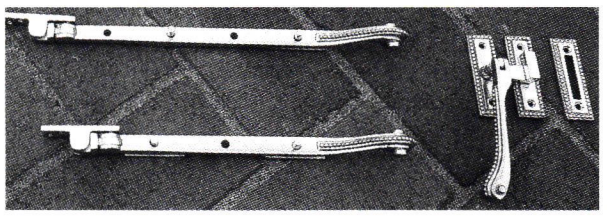


"GET LOST IN THE COLORFUL DETAILS."

WRITE IN NO. 432

BUYING GUIDE TO WINDOW HARDWARE



Jamar International supplies these antique casement stays in armour bright and other finishes.

Jamar International
530-333-0590; Fax: 530-333-0594
www.antiquedoorwindowhardware.com
Greenwood, CA 95635

Importer & supplier of antique designer hardware: for doors, windows, shutters, gates, cabinets & more; wrought iron, brass, bronze & pewter; rust & common finishes; Louis IV to Art Deco styles; lever handles, knobs, bolts, hinges, knockers, pull handles, push plates, lighting, ring handles, cremone bolts, escutcheons & more; casement hardware, window locks, sash lifts & new reproduction hardware; custom hardware duplication services. *Write in No. 360*

◆ ◆ ◆

Kayne & Son Custom Hardware
828-667-8868; Fax: 828-665-8303
www.customforgedhardware.com
Candler, NC 28715

Custom fabricator of hardware: functional & dummy, straight or curved strap hinges, various designs of HL hinges, rat-tail & butterfly hinges, cane & drop surface bolts, locks & locksets, custom butt hinges, knockers & sash locks; casement hardware, window locks, sash lifts, drapery hardware & new reproduction hardware; fireplace grates, tools & accessories; weathervanes; hand-forged or cast-bronze thumb-latch sets or dummy handles & pulls; hand-forged steel, wrought iron/steel & cast brass/bronze; custom restoration & reproduction; brochure $5. *Call for more information.*

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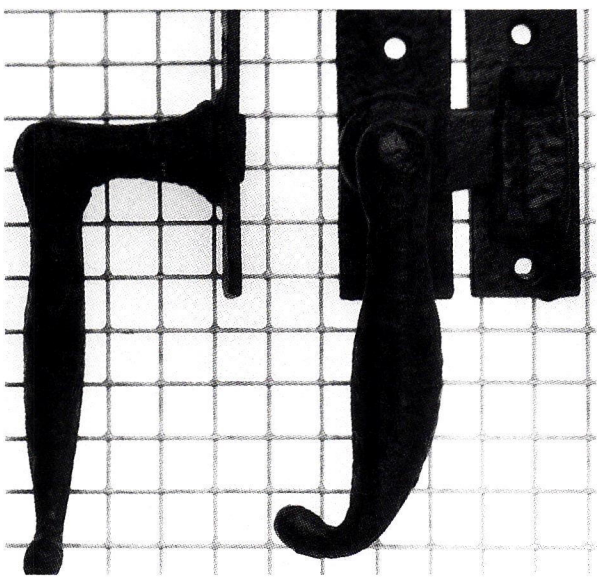

Maguire Iron manufactured this casement fastener, model #1567, in a dull black finish.

Maguire Iron Corporation
510-234-7569; Fax: 510-232-7519
www.maguireironcorporation.com
Richmond, CA 94801

Manufacturer, custom fabricator & importer of door, window & shutter hardware: knobs, escutcheons, locksets, hinges, door knockers, door bells, push plates, kick plates, lever handles, cremone bolts & pocket-door hardware; brass, bronze, wrought iron, rust & pewter; 17th-century, Art Deco & other styles. *Write in No. 7600*

Millwork Specialties
800-592-7112; Fax: 718-965-3974
www.millwork-specialties.com
Brooklyn, NY 11215

Custom millwork shop: wood doors, windows, entryways & storefronts; porches & decks; landmark projects from the late-18th, 19th & early-20th centuries; all wood species; bent, round & arched windows & doors; window & door hardware. *Write in No. 3050*

◆ ◆ ◆

Mitchell, D.C.
302-998-1181; Fax: 302-994-0178
www.dcmitchell.org
Wilmington, DE 19804

Supplier of reproduction period door, window & shutter hardware: box locks, strap hinges, shutter tiebacks & more; hand forged & hand cast in wrought iron & cast bronze. *Write in No. 2800*

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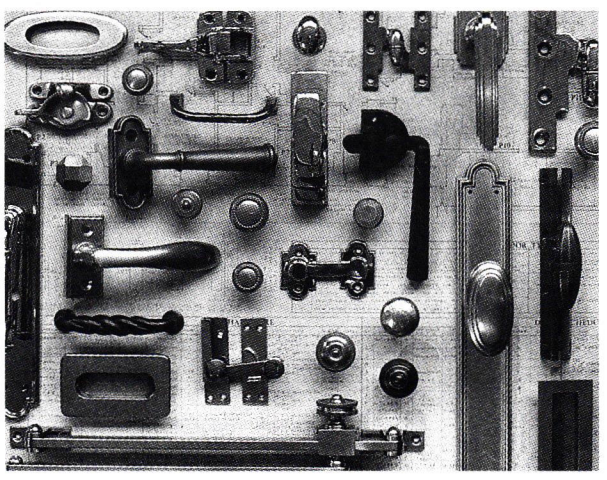

NANZ supplies custom period hardware, including mortised sash lifts, window locks and casement window stays, as well as door hardware.

Nanz Custom Hardware, Inc.
212-367-7000; Fax: 212-367-7375
www.nanz.com
New York, NY 10013

Designer & manufacturer of period residential door & window hardware: Gothic to modern; specialized finishes; custom; will work directly with architects, designers & builders; consultations; specification & restoration services. *Write in No. 1150*

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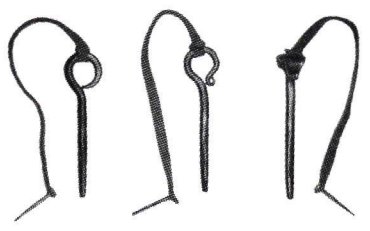


These forged window pins, fabricated by Old Smithy Shop, hang by a leather thong with an attached forged nail.

Old Smithy Shop
603-672-4113; Fax: Same as phone
www.oldsmithyshop.com
Brookline, NH 03033

Custom fabricator of hand-forged, hand-crafted Early American hardware: for cabinets, gates, doors, windows, barns & shutters; latches, pulls, butterfly & H & HL hinges, cockshead & pintle strap hinges & door knockers; window locks & pins & curtain holdbacks & rods; fireplaces accessories; historic consultations. *Write in No. 285*

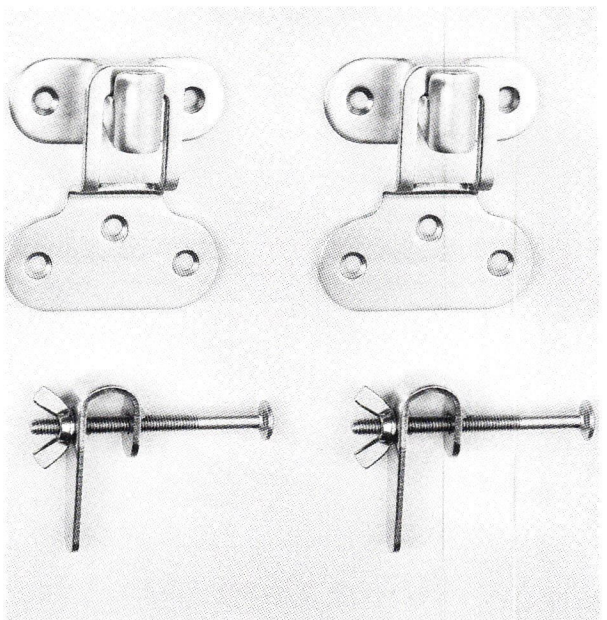
Patten Design
714-894-0131; Fax: 714-894-0031
15561 Product Ln., #D-5
Huntington Beach, CA 92649

Manufacturer of custom door & window hardware: all styles; non-ferrous metals & stainless steel; large & small runs; knobs, levers, locksets, escutcheons, cremones, pulls, hinges & more. *Write in No. 1520*

◆ ◆ ◆

Phelps Co.
802-257-4314; Fax: 802-258-2270
60 Elm St.
Brattleboro, VT 05301

Manufacturer & designer of traditional hot-forged solid-brass door & window hardware: sash pulleys & chains, casement stays, locks, lifts, storm/screen hangers, bronze screen wire & sash weights; same-day shipping for most items. *Write in No. 6001*



Heavy-duty stainless-steel storm sash and screen hangers are featured in the new color catalog of traditional window hardware from Phelps Co.

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Pullman Mfg. Corp.
585-334-1350; Fax: 585-359-4460
www.pullmanmfg.com
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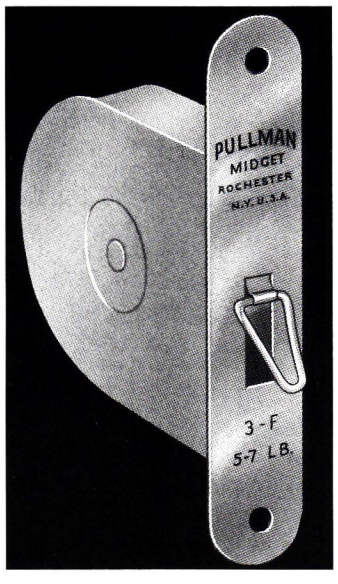
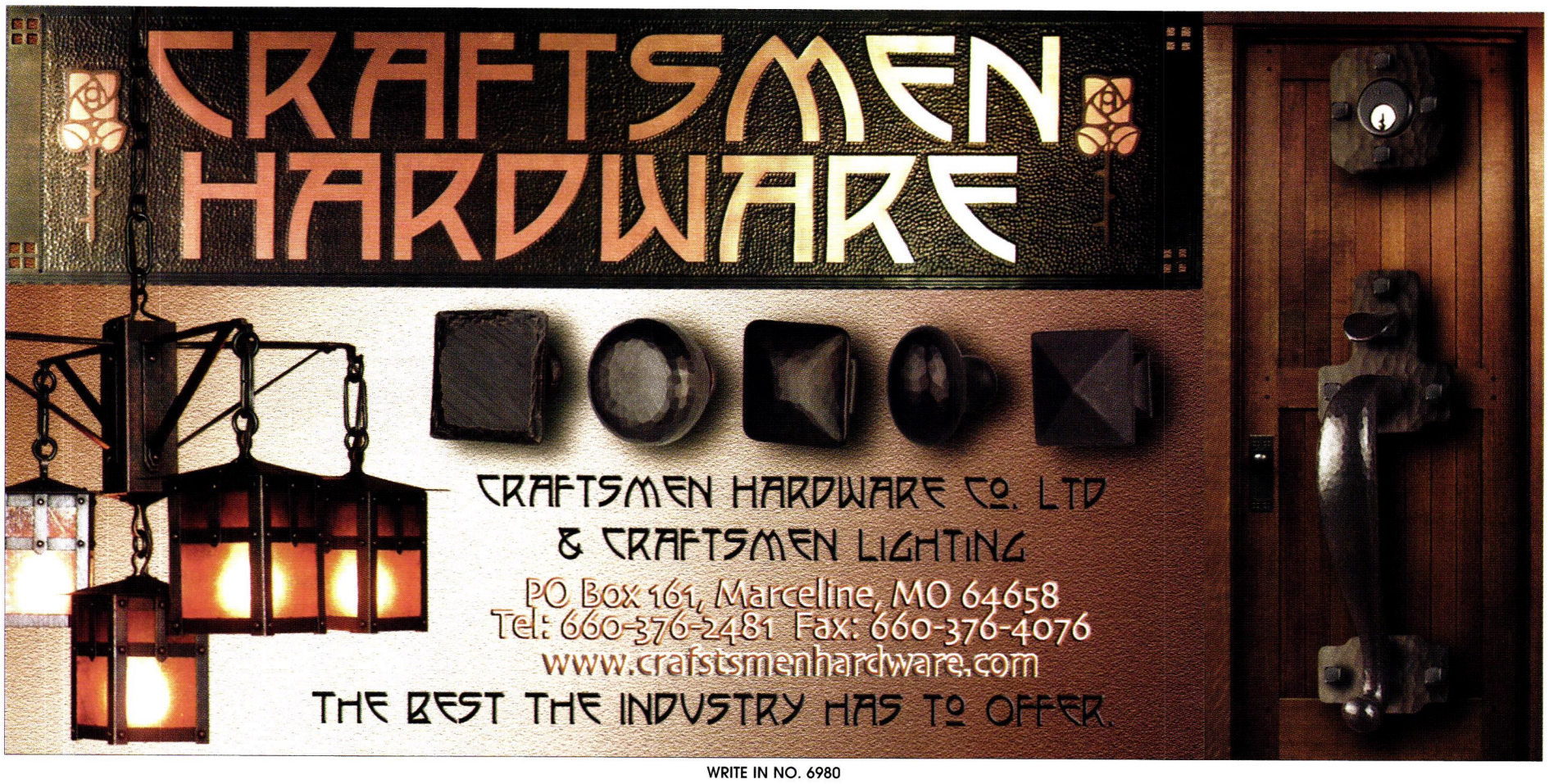
Distributer of counterbalances for window sashes: to replace weights, chains, lifts & pulleys; industrial cable balances; sash lifts & weights; new reproduction hardware; residential, historical, commercial & industrial; applications since 1886. *Write in No. 1048*

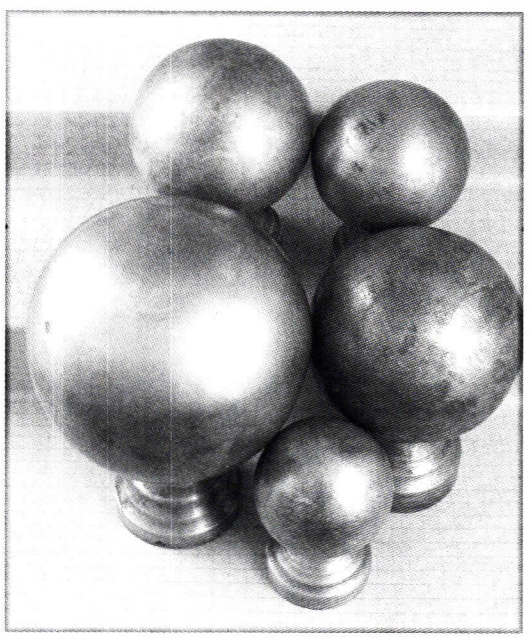


Pullman Mfg. created this counter balance for any kind of window that must be suspended, lifted, pushed, pulled or retracted.



WRITE IN NO. 6980

WRITE IN NO. 285



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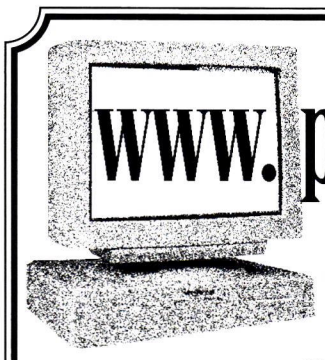

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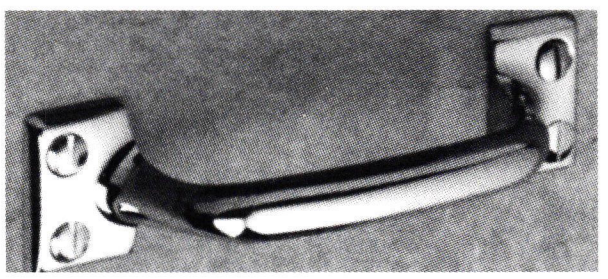
BUYING GUIDE TO WINDOW HARDWARE



This 4-in. bar sash lift, model #6665 from Rejuvenation, was finished in polished nickel.

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www.rejuvenation.com
Portland, OR 97210

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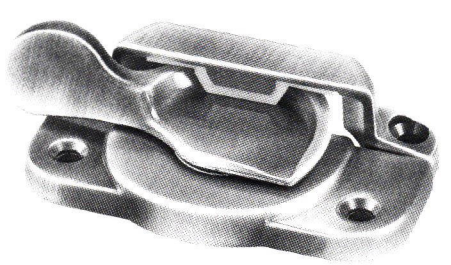

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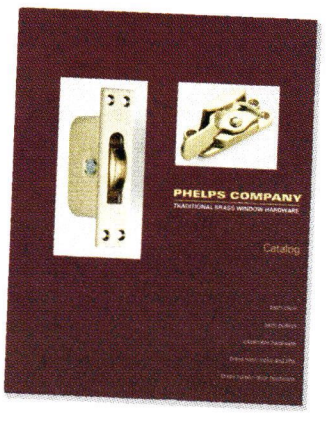

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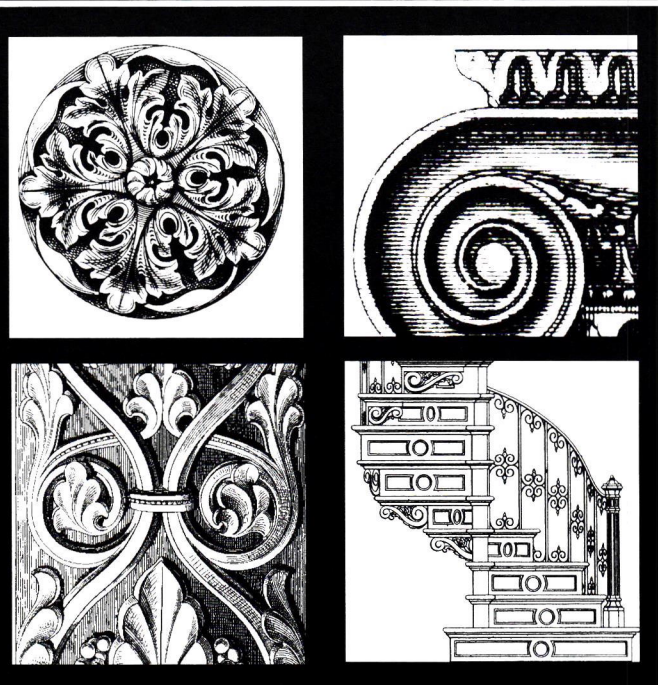

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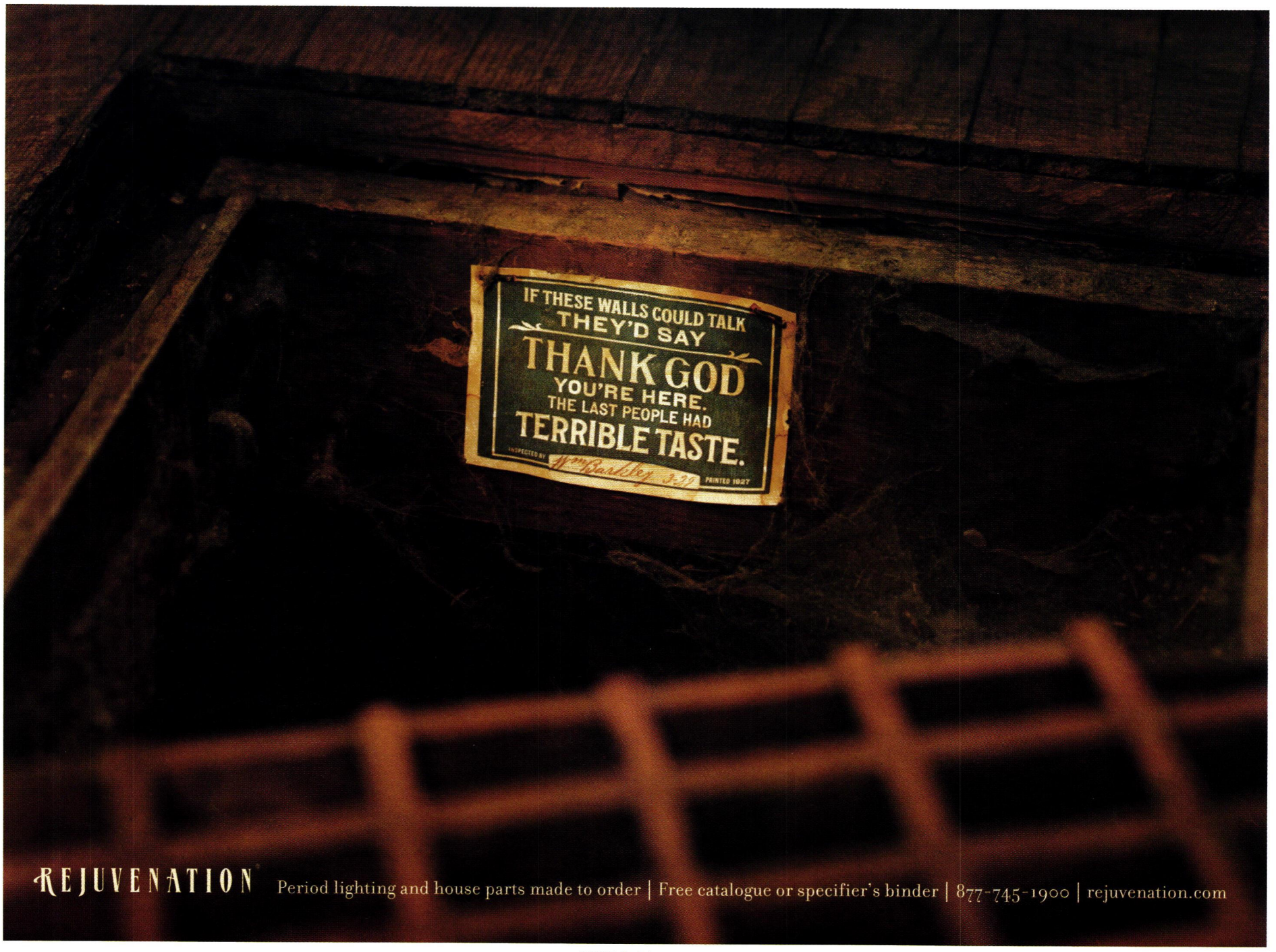

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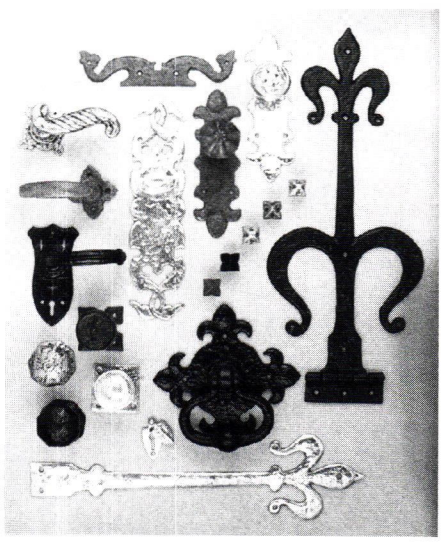

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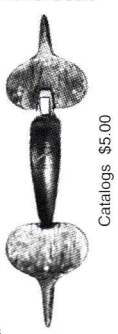

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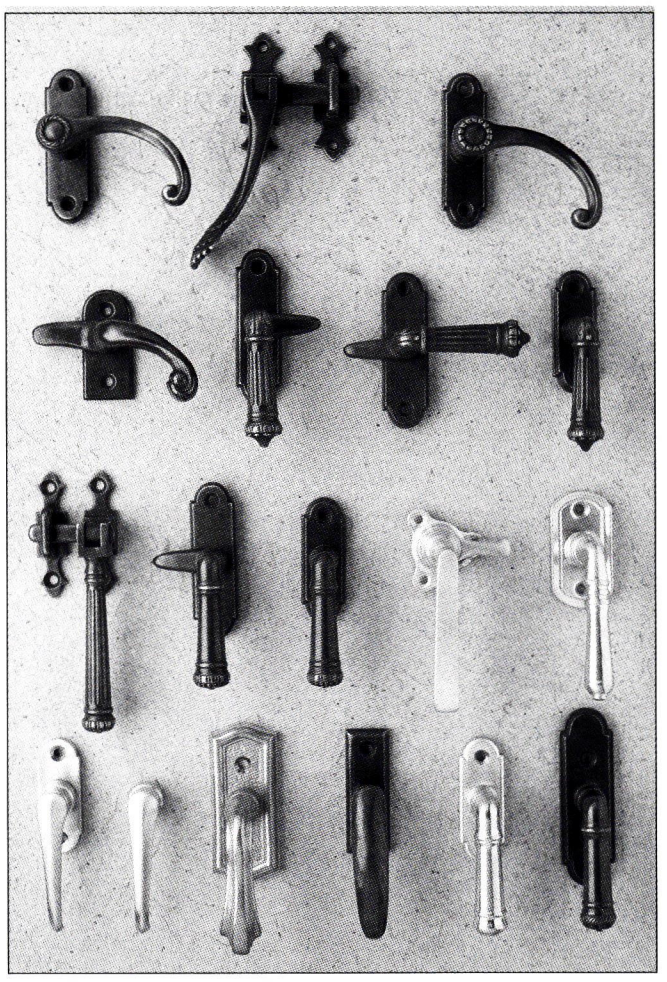

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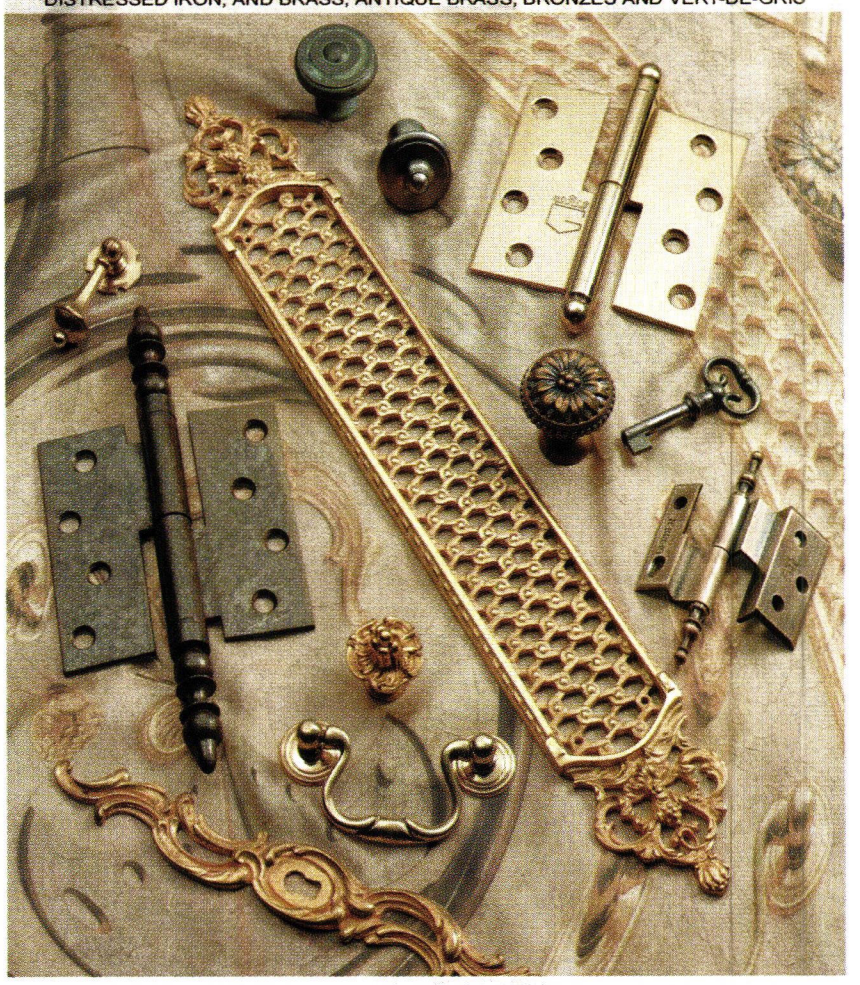

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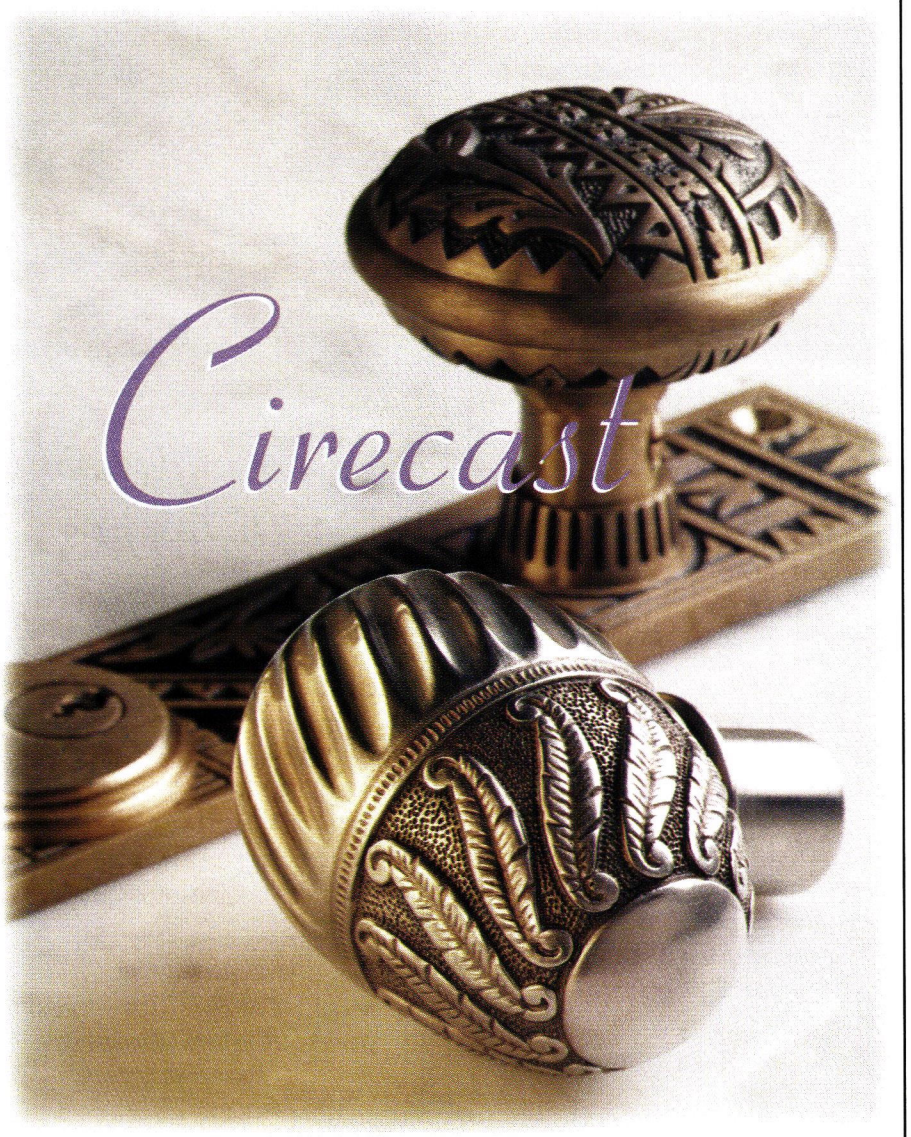

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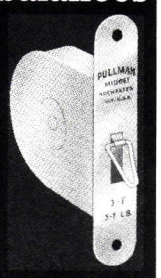

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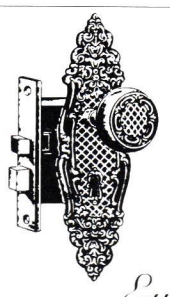

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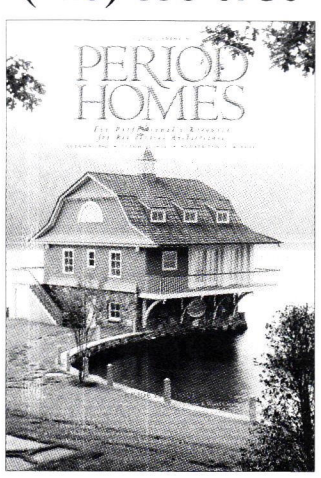

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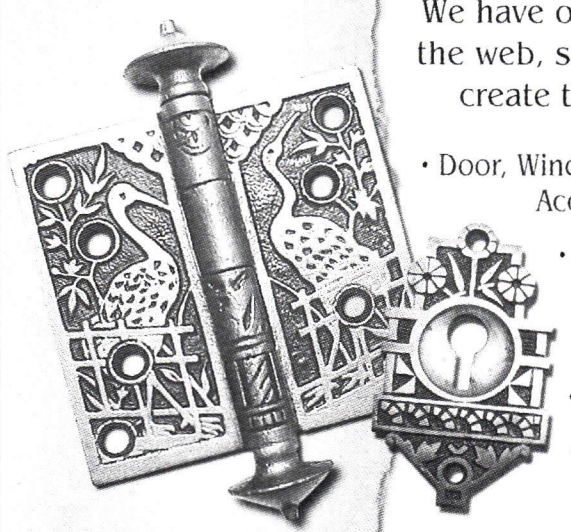

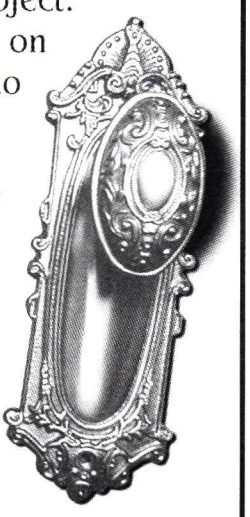

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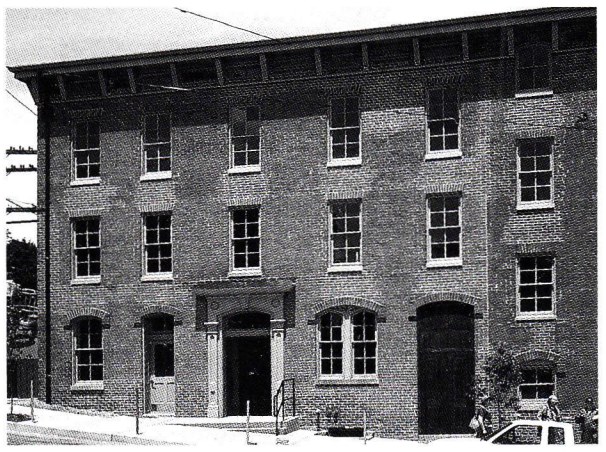

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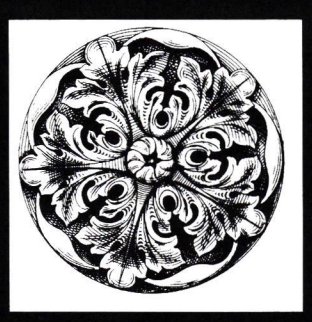
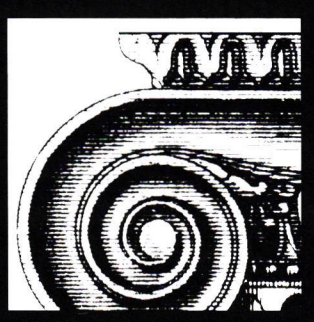

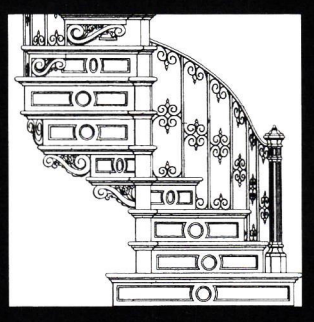

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Adams Architectural Wood Products
888-285-8120; Fax: 563-285-8003
www.adamsarch.com
Eldridge, IA 52748

Manufacturer of custom windows & doors with an emphasis on historic restoration projects: AWI premium-grade construction; wide variety of glazing & wood species; storm, screen & combination doors. *Write in No. 1265*

Adam's Architectural Wood Products specializes in replicating historic doors and windows.

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Allegheny Restoration & Builders, Inc.
304-594-2570; Fax: 304-594-2810
www.alleghenyrestoration.com
Morgantown, WV 26507

Restorer of historical wood windows, doors & millwork: log & timber-frame structures, contemporary wood, masonry types & more; wood-epoxy-repair techniques; authentic joinery methods. *Write in No. 1004*

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Arched Casings
888-273-2567; Fax: 614-873-9963
www.archedcasings.com
Plain City, OH 43064

Manufacturer of architectural curved-wood products: moldings, extension jambs & custom shapes for doors, windows & cased openings; custom profiles & nationwide shipping. *Write in No. 313*

Arched Casings manufactured these window casings with 2- to 4-in. extension legs on the half-rounds for a more accurate miter cut.

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Architectural Components, Inc.
413-367-9441; Fax: 413-367-9461
www.architecturalcomponentsinc.com
Montague, MA 01351

Custom fabricator of wood windows & doors: traditional details, materials & joinery; paneled, carved, louvered, French, pocket & art-glass doors; casings & moldings, complete entryways, art-glass sidelites & doors; mahogany, pine & others as specified; reproduction & custom work. *Call for more information.*

These out-swing casement windows with reproduction hardware were manufactured by Architectural Components.

◆ ◆ ◆

Architectural Windows & Entries, Inc.
800-747-6840; No fax
www.architecturalwindows.com
Saint Petersburg, FL 33712

Custom designer & manufacturer of windows, doors, patios & entry systems: solid timber; residential & commercial; historic restoration. *Write in No. 3025*

Architectural Windows & Entries manufactured these traditional weight-and-chain double-hung windows for this New England home.

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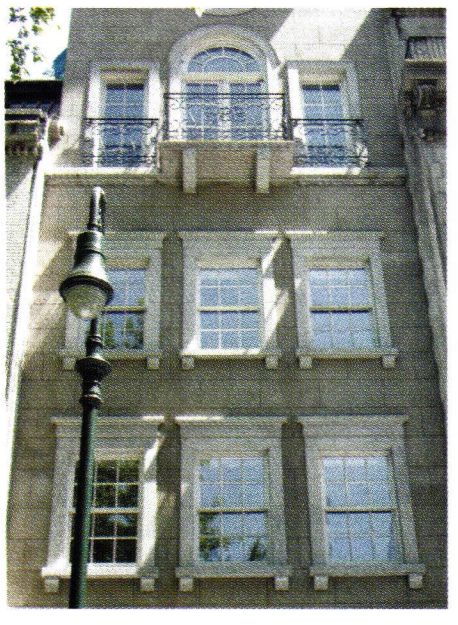
Artistic Doors & Windows
800-ART-DOOR; Fax: 732-726-9494
www.artistic-doors.com
Avenel, NJ 07001

Custom fabricator of solid-hardwood doors & windows: door thicknesses from 1 3/8 to 3 in.; reproduction of historical weight-&-chain windows & landmark doors. *Write in No. 363*



Artistic Doors & Windows created the solid-hardwood windows for this historic residence.

◆ ◆ ◆

Asselin SA
207-541-3626; Fax: 207-253-5359
www.asselin.fr
79102 Thouars, France

Supplier of traditional French windows & doors: solid French oak & Moabi; classic cremone & espagnolette hardware; true-divided lites; single or insulated glazing; custom sizes; French firm. *Write in No. 2616*

Traditional French true-divided-lite windows are available from Asselin SA in French oak or Moabi with classic espagnolette and cremone hardware.

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Bergerson Cedar Windows, Inc.
800-240-4365; Fax: 503-861-0316
www.bergersonwindow.com
Warrenton, OR 97146

Manufacturer of custom & historical windows & doors since 1977: long-lasting western red cedar; complete custom units or sash only; crisp milling detail & shop drawings; wood window restoration & replication services; round top, oval, round, casement, double hung & custom shapes; Q-Lon weather-stripping options. *Write in No. 83*

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Caoba Doors
800-417-3667; Fax: 215-747-8908
www.caobadoors.com
Philadelphia, PA 19143

Manufacturer of solid-wood doors & windows: custom designs & historical reproductions; large standard line; complete millwork capabilities; casings & windows; Smartwood certified manufacturer, SW-COC-073; paneled, carved, louvered, French, pocket, art glass, casings & moldings for doors; complete entryways; art-glass sidelites; oak, maple, cherry, alder, mahogany, fir, poplar & more. *Write in No. 1184*

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Century Woodworking, Inc.
800-448-7809; Fax: 860-379-1052
www.centurywoodworking.com
Pleasant Valley, CT 06063

Manufacturer of custom wood doors, windows & transoms: traditional joinery & energy-efficient weather stripping; numerous glazing options; single or double glazed; tempered or antique leaded glass; true-divided-lite sashes. *Write in No. 368*

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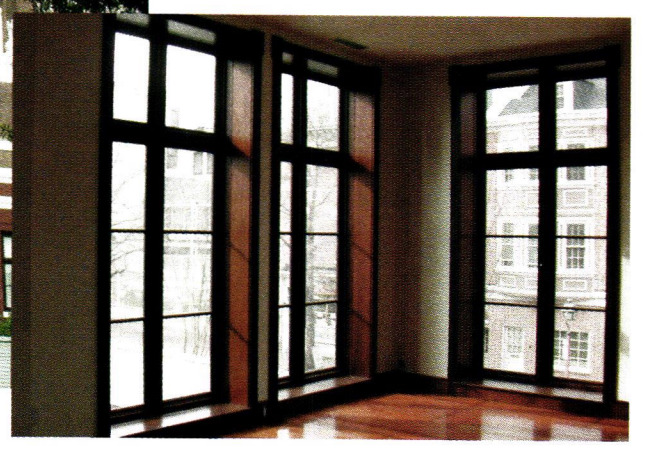
Drums Sash & Door Co., Inc.
570-788-1145; Fax: 570-788-3007
www.drumssashanddoor.com
Drums, PA 18222

Custom fabricator of replacement sash: entryways, doors, windows, moldings, raised-panel shutters & storm & screen doors; all sizes & layouts; large choice of profiles & woods; combination storm & screen doors with aluminum or brass wire; crossbuck combinations; pine, red oak, birch & Spanish cedar. *Write in No. 1139*

Drums Sash & Door fabricated these arch-top divided-lite windows in mahogany.



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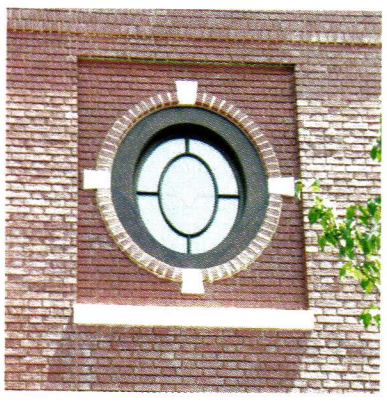

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BUYING GUIDE TO WOOD WINDOWS

Enjo Architectural Millwork
800-437-3656; Fax: 718-442-7041
www.enjo.com
Staten Island, NY 10302

Manufacturer of custom-designed all-wood windows & doors: any size or shape; true-divided lites; unusual muntin patterns; choice of weather stripping. *Write in No. 717*

◆ ◆ ◆

Grabill fabricated these fixed and operable casement windows with fixed transom units in mahogany.

Grabill Windows & Doors
810-798-2817; Fax: 810-798-2809
www.grabillwindow.com
Almont, MI 48003

Custom manufacturer of solid-wood & bronze-clad windows & doors: lift & slide doors, casements, tilt-turn, European in-swing & historically accurate double-hung windows with weight-&-pulley operation; bronze hardware with finish options, profiles, glass & stained glass. *Write in No. 1910*

Green Mountain Glass
603-826-4660; Fax: Same as phone
P.O. Box 938
Charlestown, NH 03603

Manufacturer of glass for all-wood windows: small-lite insulated glass with narrow sight line; many types of glass; various colors of spacers, both dual-seal silicone & warm-edge superspacer. *Write in No. 419*

◆ ◆ ◆

Historic Doors by Hendricks
610-756-6187; Fax: 610-756-6171
www.historicdoors.com
Kempton, PA 19529

Custom manufacturer of wood windows & doors: circular casings & moldings; restoration & period-style construction. *Write in No. 3570*

◆ ◆ ◆

Hull Historical fabricated and installed these historical insulated-glass wood windows for this residential building.

Hull Historical Millwork
817-332-1495; Fax: 817-332-1496
www.hullhistorical.com
Fort Worth, TX 76104

Manufacturer of historically accurate doors, windows, columns, paneling & moldings: double-hung windows with weights & pulleys to match historical profiles; custom fabrication & replication; casings, stairs & stair parts; longleaf yellow pine, tidewater red cypress & other woods as specified. *Write in No. 3016*

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KSD Custom Wood Products
603-796-2951; Fax: 603-796-2133
www.ksdcwp.com
Tilton, NH 03276

Manufacturer of custom wood windows: all shapes & sizes; all glazing options with wood bead inside &/or putty glaze. *Write in No. 1188*

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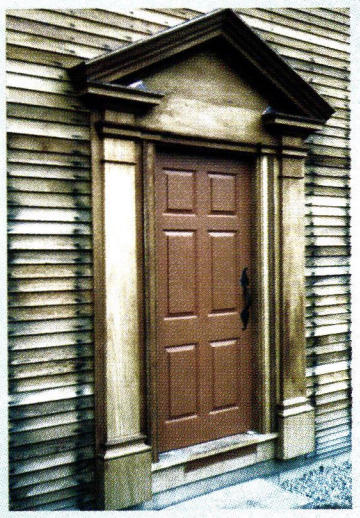
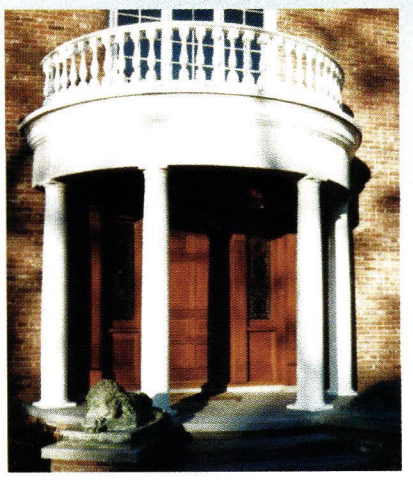
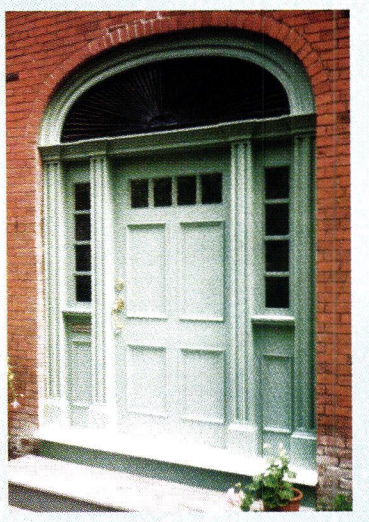
Loewen
800-563-9367; Fax: 204-326-5227
www.loewen.com
Steinbach, MB, Canada R0A-2A0

Manufacturer of windows & doors in Douglas fir: extruded-aluminum cladding that holds its shape & resists denting & bending; oval, round, round top, casement, double hung & custom shapes; patio & terrace doors; standard weather stripping; historical window replication. *Write in No. 472*







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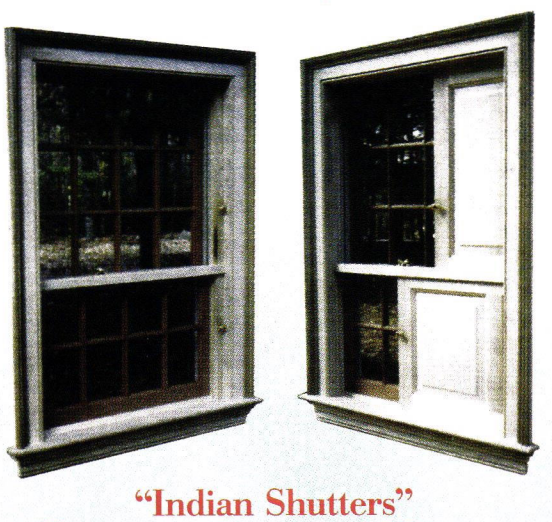

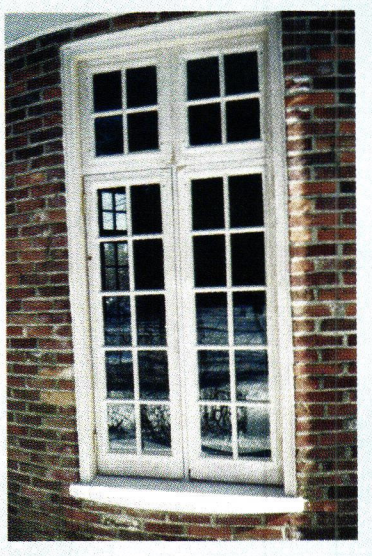

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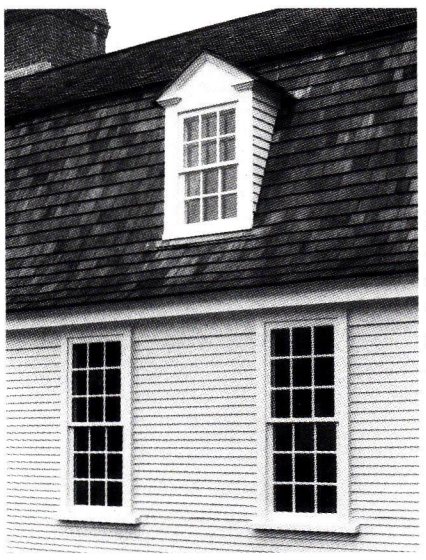


Maurer & Shepherd custom manufactured the wood windows for this house in Hadlyme, CT.

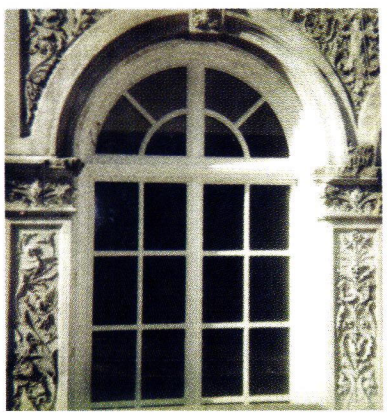
Maurer & Shepherd, Joyners
860-633-2383; Fax: 860-633-7231
122 Naubuc Ave.
Glastonbury, CT 06033

Manufacturer of historic-reproduction architectural millwork: windows, doors, entryways & raised paneling; pine & mahogany; $4 catalog. *Call for more information.*

◆ ◆ ◆

Millwork Specialties
800-592-7112; Fax: 718-965-3974
www.millwork-specialties.com
Brooklyn, NY 11215

Custom millwork shop: wood doors, windows, entryways & storefronts; porches & decks; landmark projects from the late-18th, 19th & early-20th centuries; all wood species; bent, round & arched windows & doors; window & door hardware. *Write in No. 3050*



Millwork Specialties custom manufactured these arched-top divided-lite casements for an historic restoration project.

The accurate duplication of historic wood windows is a specialty of Parrett Windows.

Parrett Mfg., Inc.
800-541-9527; Fax: 715-654-6555
www.parrettwindows.com
Dorchester, WI 54425

Manufacturer of hand-crafted custom wood & clad-wood windows: any geometric shape, numerous wood species & any color made to exact specifications requested; certified & tested fixed & operating windows; residential, commercial & church projects; historical replication; nationwide distribution. *Write in No. 3003*

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Pollard Windows custom manufactured this window, which has a vinyl-clad exterior face and wood interior.

Pollard Windows
800-846-4746; Fax: 716-686-0963
www.pollardwindows.com
Cheektowaga, NY 14225

Manufacturer of vinyl-clad wood windows: round top, oval, casement, double hung, awning, slider & custom shapes; French clad doors; natural oak, pine & maple interiors. *Write in No. 3055*

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203-531-3493; Fax: 203-532-9727
www.customtrades.com
Greenwich, CT 06831

Manufacturer of wood windows & doors: any species, finish, glazing or hardware; residential & institutional; historic properties since 1881; aluminum- & bronze-clad wood-window systems. *Write in No. 1143*

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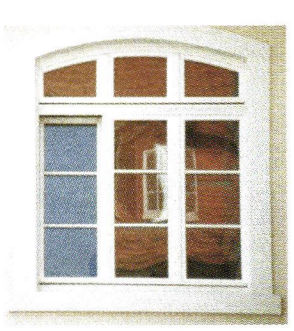
Sun Architectural Woodworks
207-625-7000; Fax: 207-625-4444
92 Depot Rd.
West Baldwin, ME 04091

Custom designer & fabricator of architectural millwork: residential; entryways; paneled, louvered, French & pocket doors; art-glass sidelites; historical 18th-century double-hung windows; sash; circular stairs, paneled walls & fireplace façades; mahogany, cherry, oak, Spanish cedar, pine, poplar & more. *Write in No. 2684*

These triple-hung windows, approximately 10½ ft. tall, with weight, bronze pulleys, and chain, were designed and fabricated by Sun Architectural Woodworks.



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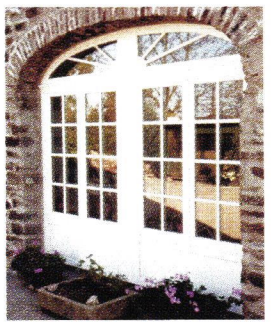

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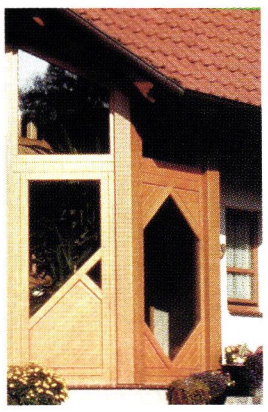

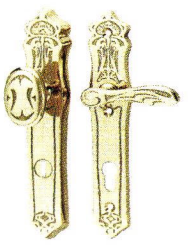

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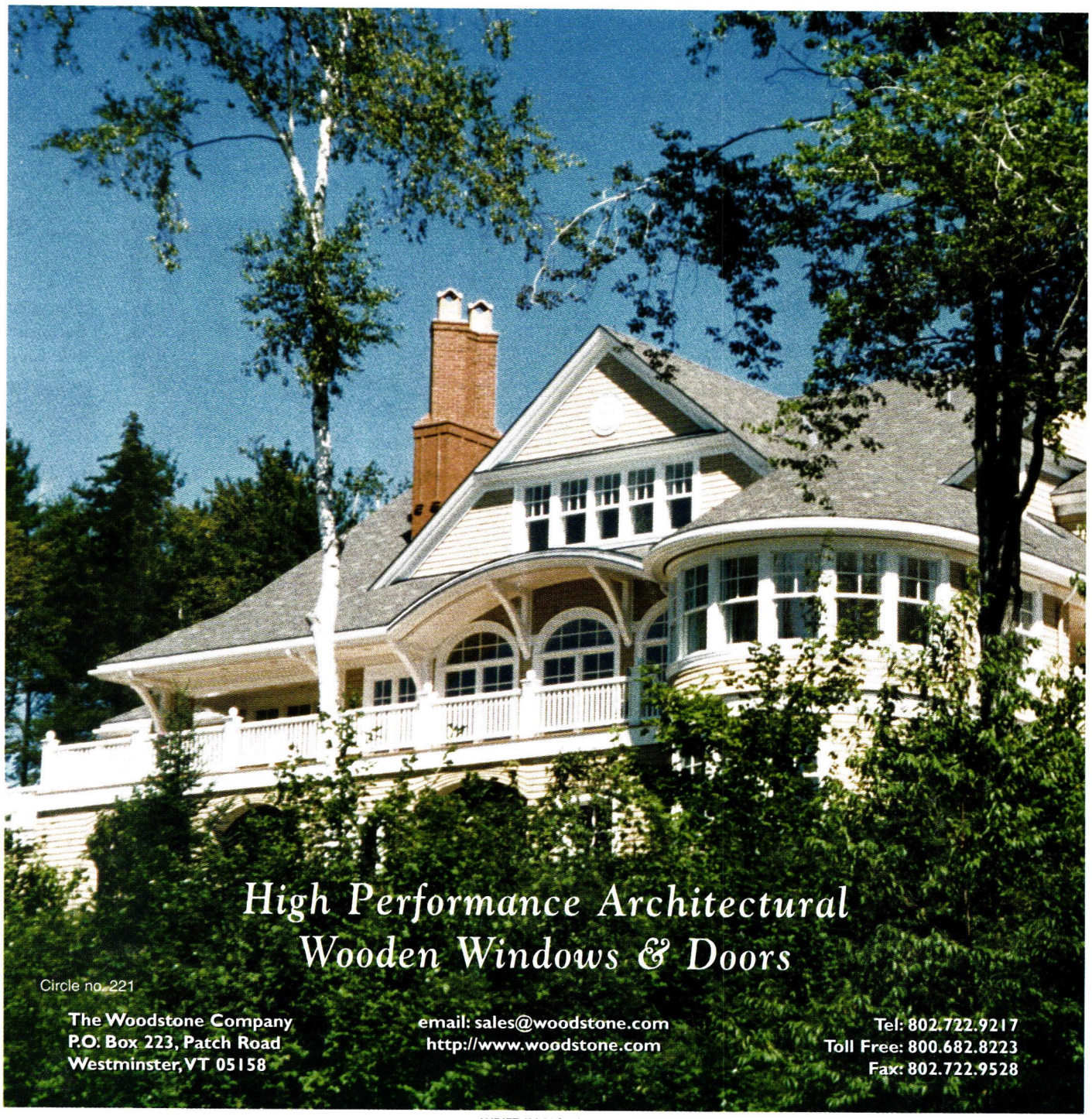

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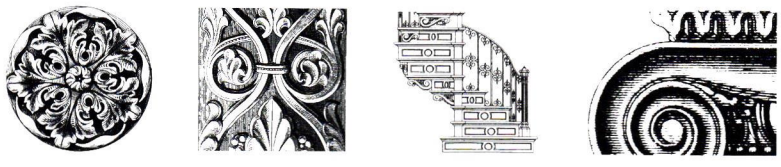

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503-238-6403; Fax: 503-238-0669
www.versatilesash.com
Portland, OR 97214

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This arched-casement Honduras mahogany window was manufactured by Wood Window Workshop to match the original windows of a 1920s Tudor-style home in upstate New York.

Wood Window Workshop
800-724-3081; Fax: 315-733-0933
839 Broad St.
Utica, NY 13501

Custom fabricator of wood windows & doors: any size, shape & species; traditional mortise-&-tenon joinery; interior, exterior & French doors; arched & bent units, moldings, casings, architectural millwork & wood screen & storm windows & doors; historical reproduction. *Write in No. 9640*

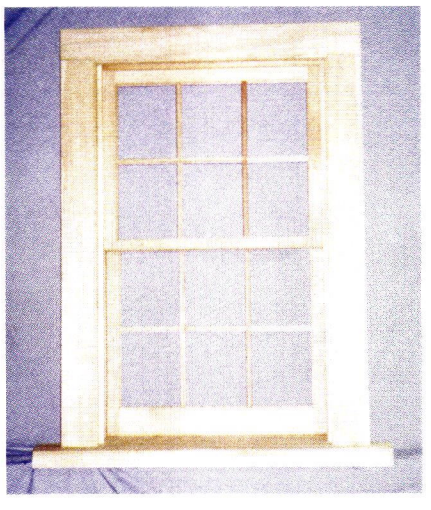
Woodstone custom manufactured these mahogany windows and doors with true-divided lites and insulated glass with 7/8-in. muntins.

Woodstone Co.
802-722-9217; Fax: 802-722-9528
www.woodstone.com
Westminster, VT 05158

Manufacturer of custom wood windows & doors: coped mortise-&-tenon joinery; all shapes, sizes & configurations; wide array of wood species; screen doors; storm windows; historical & landmark specifications. *Write in No. 8430*

Woodworks Company
845-677-3960; Fax: 845-677-5964
2559 Rte. 44
Salt Point, NY 12578

Fabricator of reproduction millwork since 1976: Victorian & Federal turnings & rails; stair parts, windows, doors & moldings. *Write in No. 3061*



Woodworks fabricated this reproduction wood window for a 19th-century-style house.

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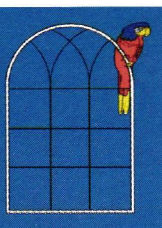

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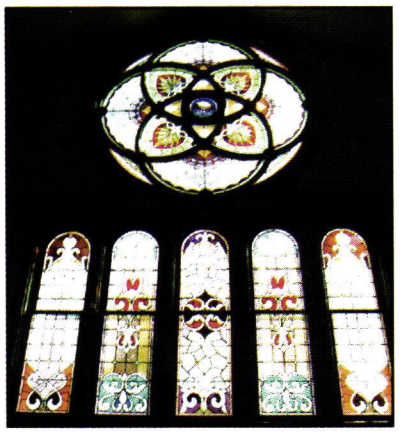
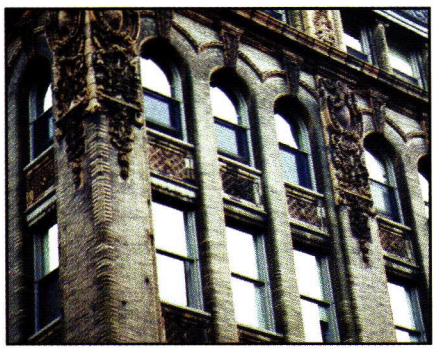
- Other woods available per request





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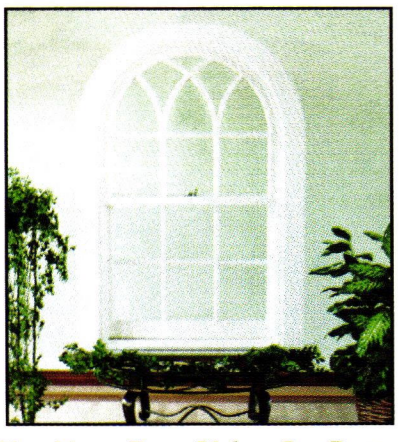

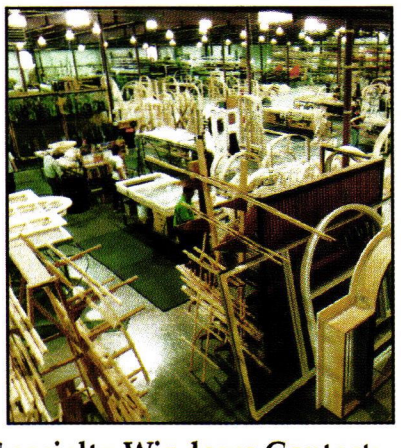

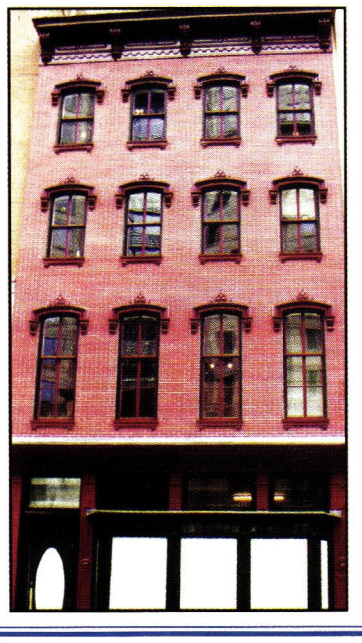

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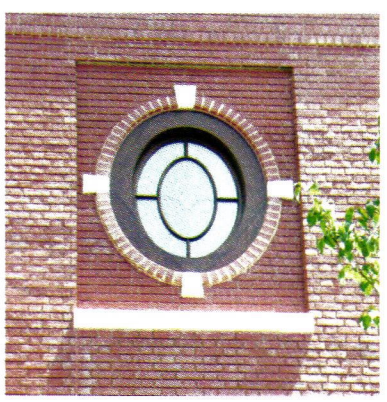

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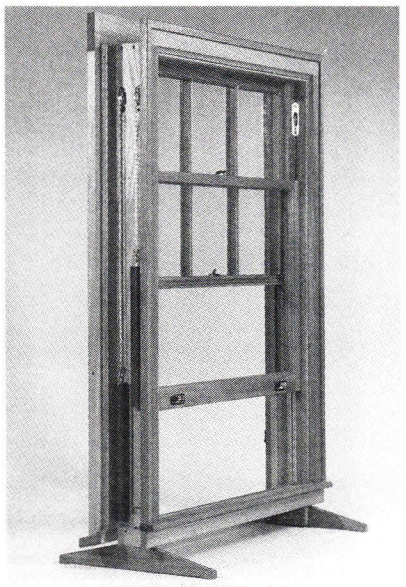

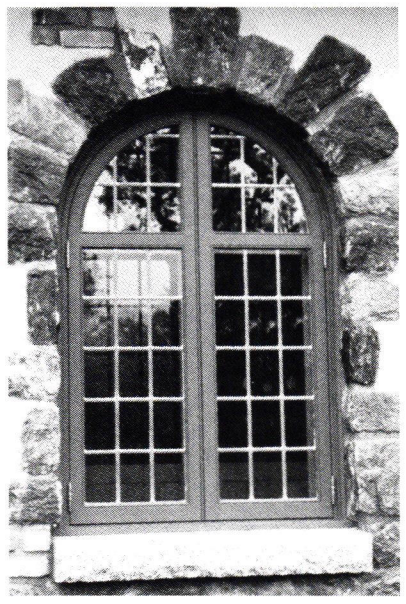

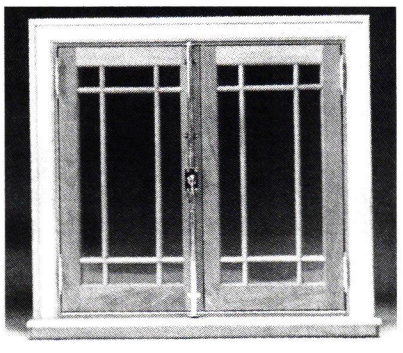

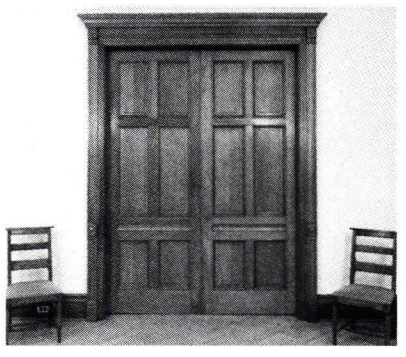

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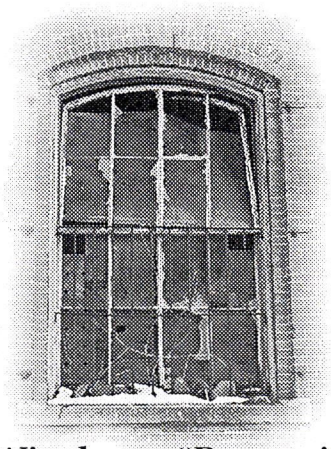

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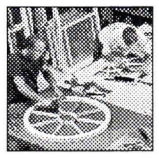

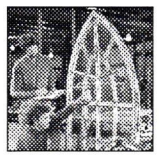

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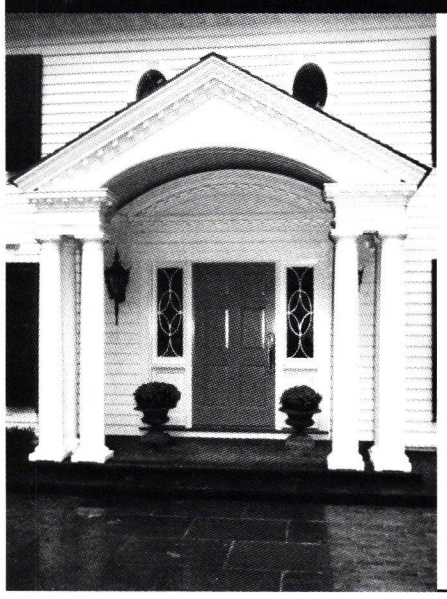

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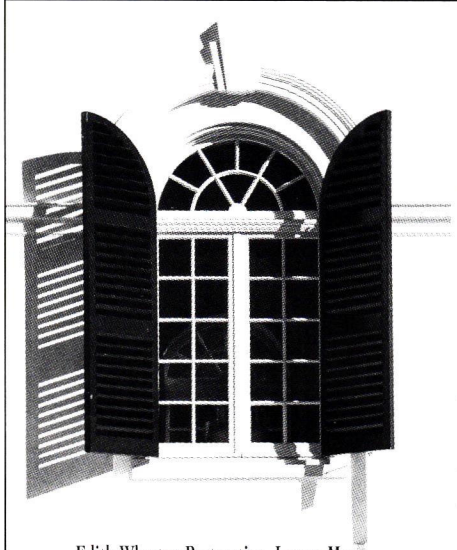

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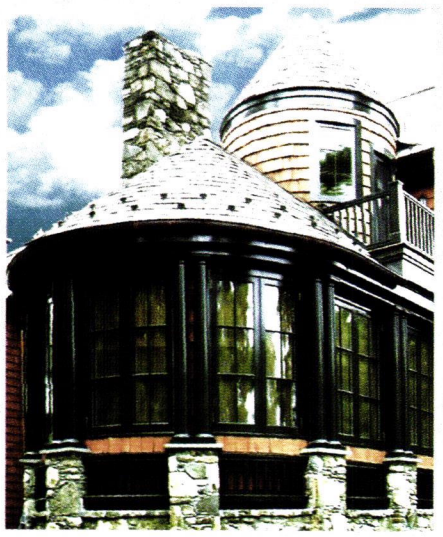

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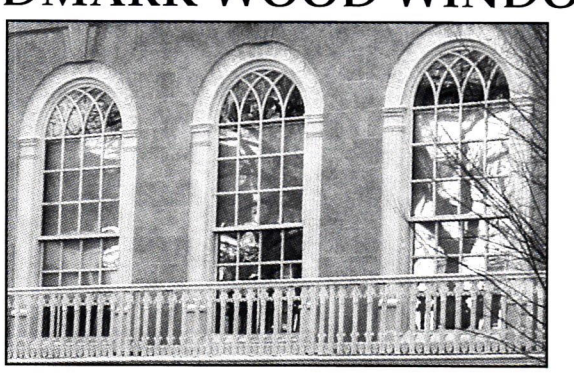

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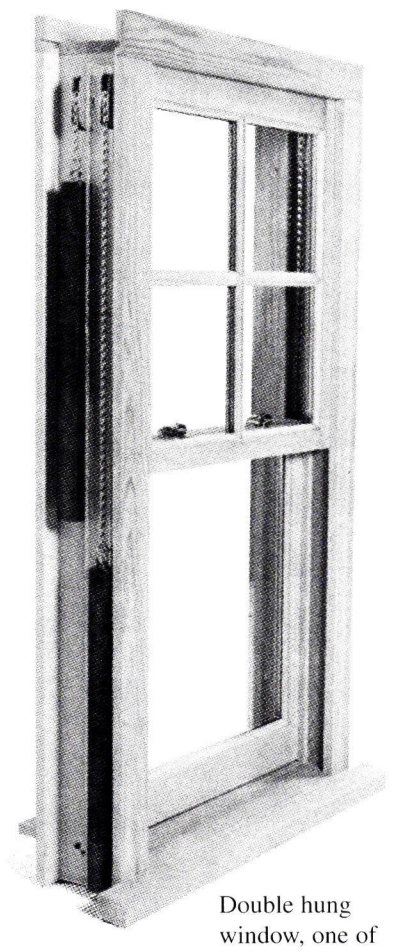

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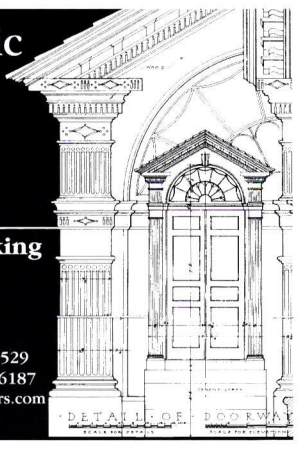

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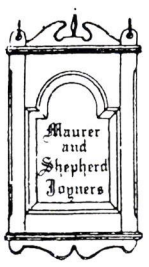

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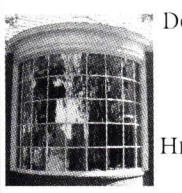

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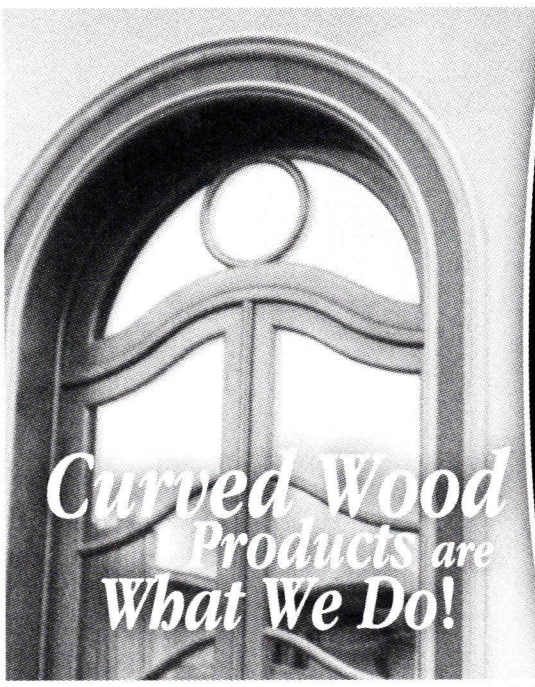

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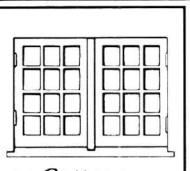

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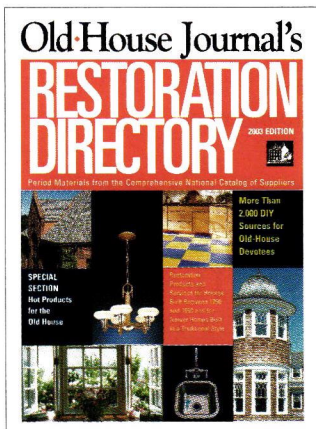

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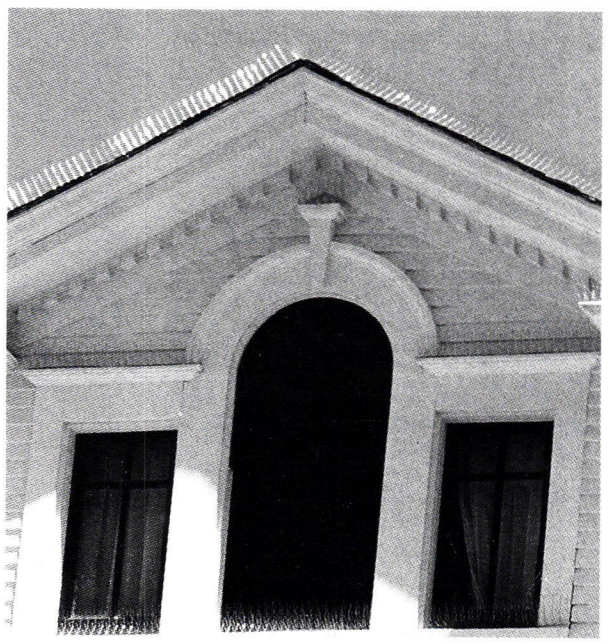

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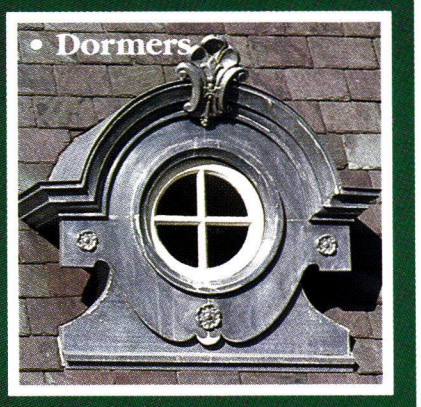

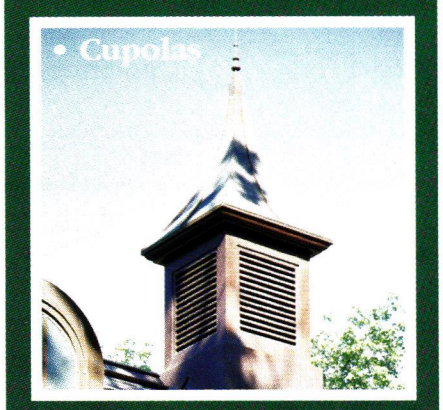

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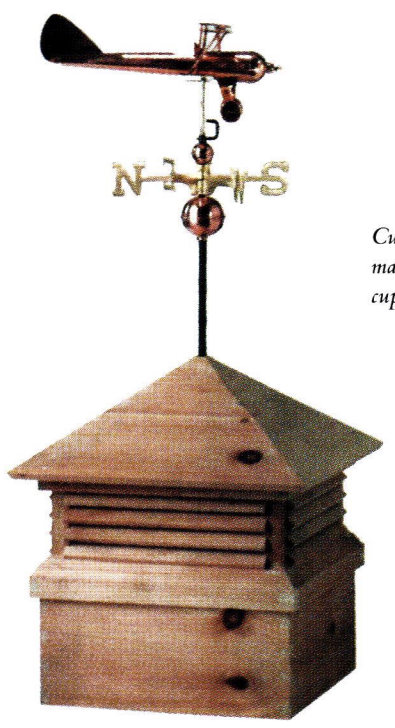

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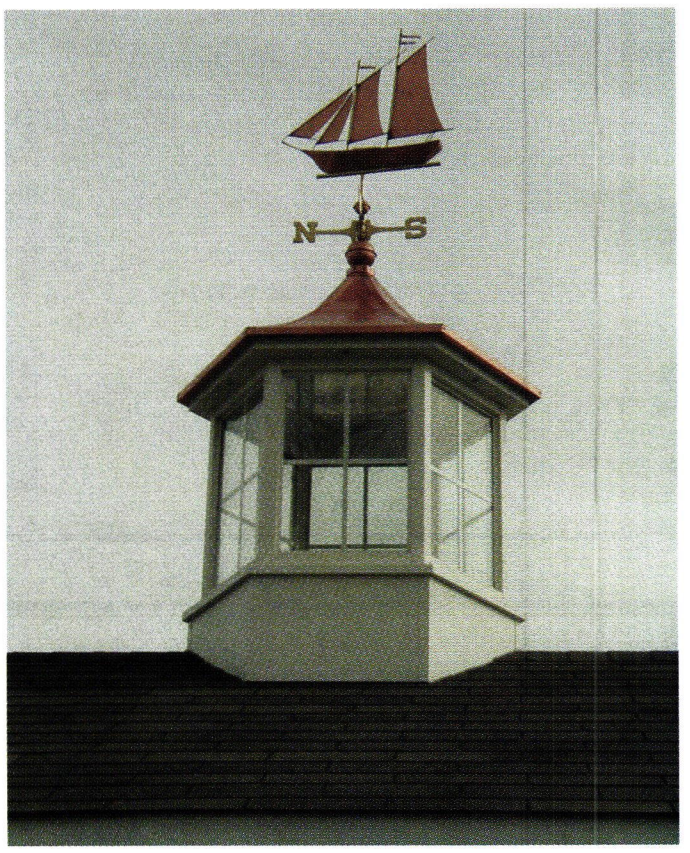

Manufactured by New Concept Louvers, this cupola is available wrapped in PVC-coated aluminum or copper, neither of which requires painting, and in more than 400 colors.

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A Legacy of Weathervanes

Although Travis Tuck died in 2002, the creation of a new company with his former apprentice ensured a future for artistic weathervanes.

In 1974, Travis Tuck made his first weathervane as a prop for the movie *Jaws*, which was being filmed near his home on Massachusetts' Martha's Vineyard. Since that time, Tuck's weathervanes have become an institution.

Notable clients include New York City's Bloomingdale's, Bill and Hillary Clinton and George Washington University. Tuck was considered the world's premier weathervane artist and is generally credited with reviving the copper repoussé technique. He was one of only two or three artisans in the United States capable of true repoussé work. "Most weathervanes are fashioned by hammering sheets of copper into molds made from an original wood carving," he said. "My technique is entirely freehand, there is never a mold. This makes every one of my weathervanes an entirely new sculpture. Each hammer blow is part of the creative process."

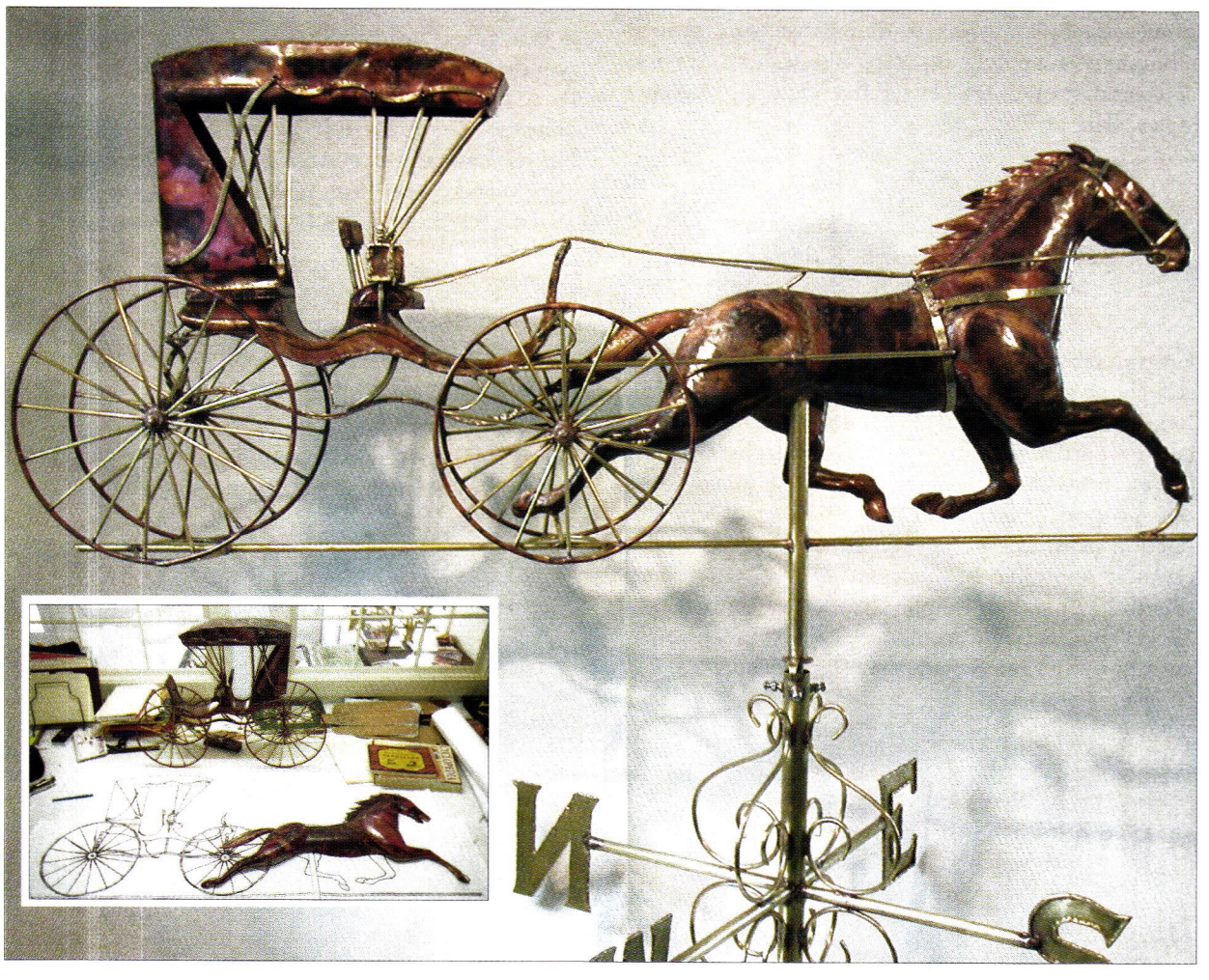
In 2002, Tuck announced the formation of Tuck & Holand Metal Sculptors, with longtime collaborator Anthony Holand, who started out as Tuck's apprentice in 1996. On November 18, 2002, Travis Tuck lost his battle with mesothelioma. *Period Homes* spoke with Holand to see how the company has changed – and remained the same – since.

Period Homes: Will the name of the company remain Tuck & Holand Metal Sculptors?
Anthony Holand: It will stay the same for a little while during the transition period – eventually it will probably change.

PH: What else will change and what will remain the same?
AH: Everything will really remain the same. We'll still make custom weathervanes and any piece of artwork needed within my capability. Travis' pieces are numbered and still supplied with his name on them. The ones I make have my name on them (as opposed to the company name).

We're doing a little more traveling with the pieces than before. One of my latest projects was a French rooster for a client in New Jersey – the client had seen the design in France. They rebuilt a French chateau in Mendham, NJ, with a chapel that had antique Tiffany windows. The rooster is 3 ft. tall and sits on top of a 16-in. copper ball that is 4½ ft. tall.

The custom Gilded Blue Crab Weathervane was fabricated in copper with 23k gold leaf and is 36 in. in diameter.



PH: Do you plan on expanding the company at all?
AH: It would be nice to expand a little, but it's nice to have the personal touch that goes with a small company. I like to be interactive with everyone. There are three of us here with an apprentice coming on part time. We don't plan on getting too big.

PH: How will Tuck's legacy be seen in terms of ideas, planning and actual product?
AH: The biggest thing is technique – we call it the bag of tricks: how a piece is made and the thinking behind it. The same ideas are used. The biggest one is getting to know a client and making each piece personal. We ask a lot of questions so that we can really get to know the client – more so than with what would usually be associated with a customer.

PH: What did you learn from Tuck?
AH: I learned the majority of the business from him. I did a lot of problem-solving on my own and learned things like welding when I was younger.

Holand sums up: "Travis was an amazing guy. He taught me a lot of things that are still going well. It's been really great even in the last five months. We have a lot of business, with around one to two years of backed up work. It was because of that increase in momentum that we needed another person. It's a good feeling – we have a lot of work, but it isn't out of control. Everyone is extremely happy with the pieces – the last two were placed inside the clients' houses as mantelpieces." ◆

The horse and carriage weathervane (with plans, inset, © 2002 Mark Lennihan), recalls an old-fashioned street scene.

BUYING GUIDE TO WEATHERVANES, FINIALS & CRESTING

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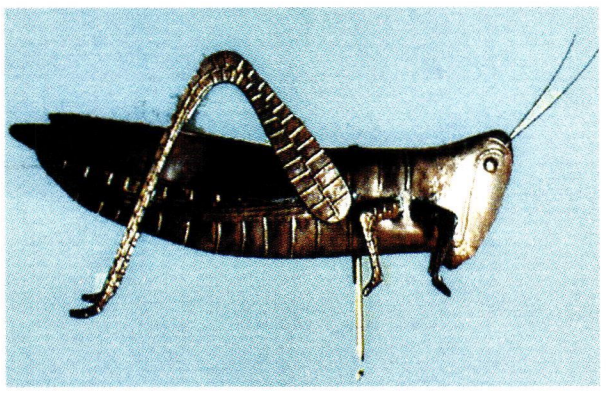

Unique weathervanes, such as this 34-in.-long grasshopper, are available from The Copper House in copper, verdigris and gold-leaf finishes.

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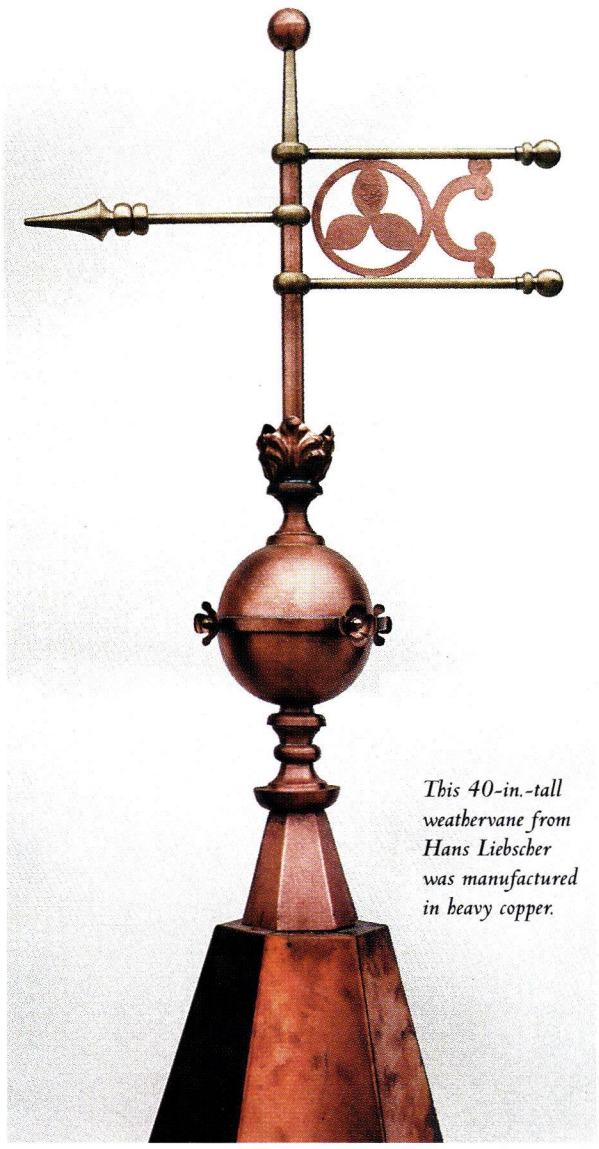

This 40-in.-tall weathervane from Hans Liebscher was manufactured in heavy copper.

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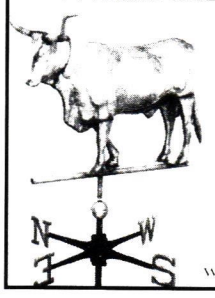

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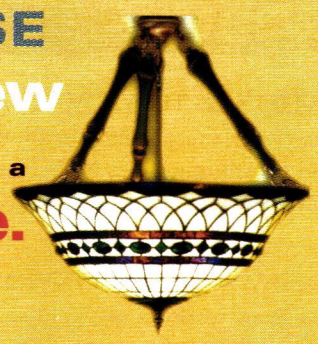

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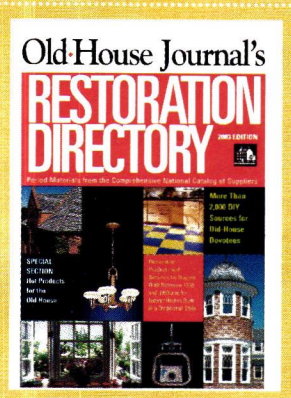

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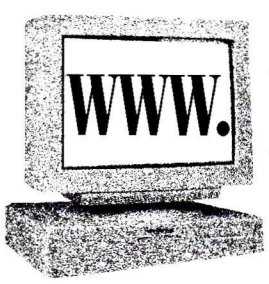

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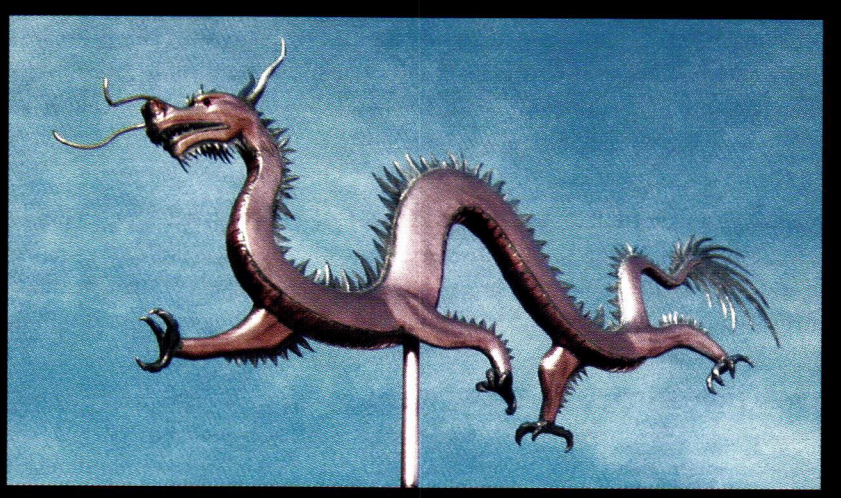

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The 36-in.-tall Fiddler weathervane was hammered freehand in copper by Weathervane Sculpture.

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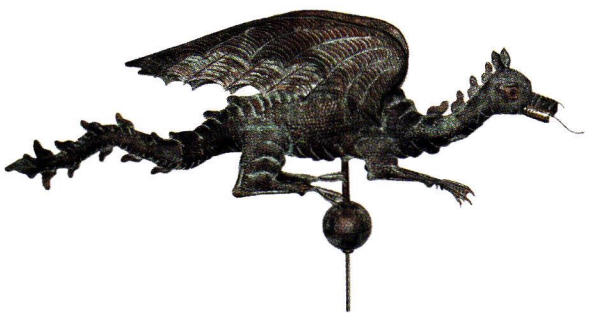

Wiemann Ironworks based the design of this dragon weathervane on a 68x29-in. 17th-century English original.

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Calendar of Events

THE PALLADIO AWARDS. The annual award competition for excellence in traditional design is co-produced by *Period Homes* and *Traditional Building* magazines; awards are given in the areas of Residential Architecture and Commercial/Civic/Institutional Architecture. For complete details about past winners and entering the next competition, log onto www.period-homes.com or www.traditional-building.com.

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COLORADO PRESERVATION CONFERENCE, Feb. 5-7, 2004. Colorado Preservation, Inc., will hold its seventh annual conference, "Saving Places 2004: The Business of Preservation", in Denver at the historic 1770 Sherman Street Event Complex. For information about registration, scholarships, continuing-education units or trade show participation, call 303-893-4260 or visit www.coloradopreservation.org.

SARATOGA SPRINGS PRESERVATION CONFERENCE, March 12-13, 2004. The theme for the conference, to be held at Skidmore College in Saratoga, NY, is "Fostering Livable Communities through Historic Preservation". For more information, visit www.saratogapreservation.org.

OLD HOUSE TRADE SHOW, March 13-14, 2004. The Greater Portland Landmarks annual Old House Trade Show is being held at the Stevens Avenue Armory in Portland, ME. For more details, visit www.portlandlandmarks.org or e-mail landmark@maine.rr.com.

RESTORATION & RENOVATION EXHIBITION, April 21-24, 2004. The spring 2004 edition of the Restoration & Renovation Exhibition and Conference will be held in Boston, MA, at the Hynes Convention Center. For more details, log onto www.restorationandrenovation.com.

PRESERVING THE HISTORIC ROAD IN AMERICA, April 22-25, 2004. This conference, sponsored by the National Trust for Historic Preservation, will take place in Portland, OR. Details will be posted at www.historicroads.org.

NATIONAL TOWN MEETING ON MAIN STREET, May 9-12, 2004. The conference, "Revitalization Resources: Money, Places, Partners", will be held in Albuquerque, NM. Program and registration details will be posted at www.mainstreet.org/conferences.

AIA NATIONAL CONVENTION & EXPO, June 10-12, 2004. The American Institute of Architects is holding its next National Convention and Design Exposition at McCormick Place in Chicago, IL. For more details on the Convention program, log onto www.aia.org. For more details on the Exposition, email aiaexpo@mc-comm.com.

ROME PRIZE COMPETITION, Nov. 1, 2004. The American Academy in Rome, one of the leading overseas centers for independent study in the arts, architecture and humanities, invites applications for the prestigious Rome Prize competition in architecture. For details, call 212-751-7200 or visit www.aarome.org.

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NATIONAL BUILDING MUSEUM EXHIBITS. The National Building Museum, Washington, DC, has a series of exhibits and programs throughout the year on topics dealing with architectural design and building. Many of the programs offer AIA continuing-education units – and the building itself is worth the visit if you've never been there. For details of current programs, log onto www.nbm.org.

HISTORIC PRESERVATION SEMINARS. The National Preservation Institute has a schedule of seminars in Historic Preservation and Cultural Resource Management running from March through November in cities across the U.S. Seminars vary in length from one to three days and qualify for AIA continuing-education units. For full schedule details, log onto www.npi.org.

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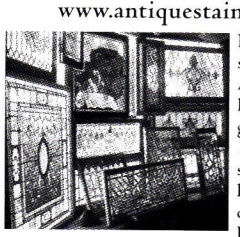

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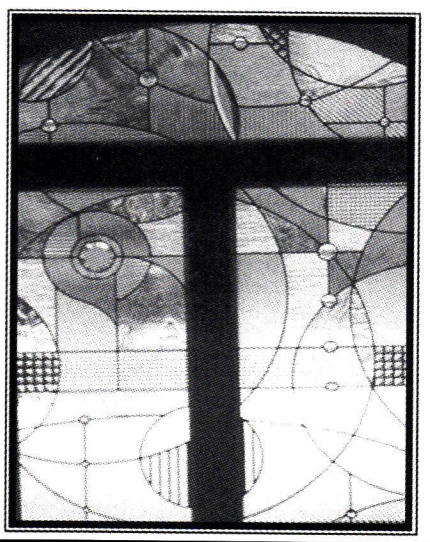

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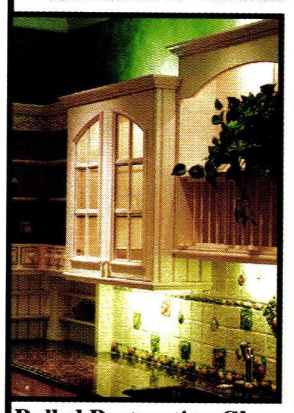
WRITE IN NO. 2510

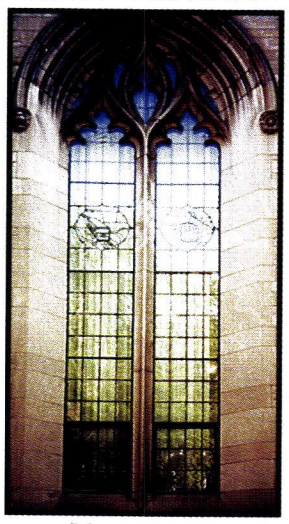
HOLLANDER'S RESTORATION GLASS FAMILY



Rolled Restoration Glass
ReNova™

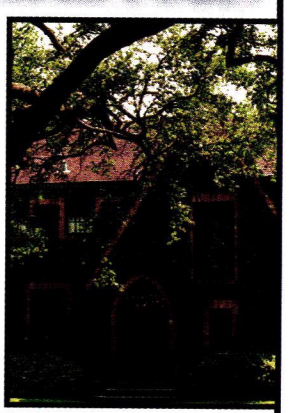
Produced in the U.S. exclusively for Hollander Glass, this *old world* style glass will bring distinction to a window, door, sidelite, transom, cabinet or piece of fine furniture. It is suitable for any project whether newly created, renovated or restored. It is perfect if you are looking for a premium glass with only subtle "antique" characteristics at a remarkably affordable price.

- **Gentle Wave**
- **Subtle Distortion**
- **Limited Seed Content**
- **Consistent 1/8″ Thickness**
- **Uniform Sheet Size**



Mouth Blown Restoration Glass
Old World Colonial™

Authentic! Hand-made in Europe the way it has been for hundreds of years, this exquisite mouth-blown glass is produced by master craftsmen. It is perfect for 100% authentic replacement of blown glass from the pre-1900's. Available in three categories: P-1, Light Restoration Glass; P-2, Medium with Cords; and RM, Heavy with Reams.



Drawn Restoration Glass
Restover®

A distinctive machine drawn, fire-polished glass featuring a subtle wave and no seeds or defects — excellent for projects where early 1900's authenticity is required. Available in 1/8″ and 3/16″ (temperable) thicknesses. Large sheet sizes available.

Retroverre™

A drawn sheet glass ideal for projects requiring a medium to heavy wave, moderate distortion, and light seed content. Available in 1/8″ and 5/32″ thicknesses. Sheets sizes: 39″ x 39″ for 1/8″ and 39″ x 59″ for the 5/32″.

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Los Angeles
Phone: 714-761-5501
E-Mail: west@hollanderglass.com

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E-Mail: atlanta@bevelkingdoors.com

Direct Importers & Wholesale Distributers of Architectural & Specialty Glass Worldwide

WRITE IN NO. 9440

BUYING GUIDE TO ART GLASS

Hollander Glass Central distributes antique, colored and textured glass for restoration and new projects.

Hollander Glass Central, Inc.
800-323-4293; Fax: 630-629-7325
1505 Centre Circle
Downers Grove, IL 60515

Wholesale distributor of large array of specialty glass: antique; more than 2,000 shades of colored, restoration, textured & patterned glass; translucent, blown & stained; prismatic glass for transoms. *Write in No. 9440*

JD's Glassworks, Inc.
770-517-9537; Fax: 770-517-3242
www.jdglass.com
Woodstock, GA 30188

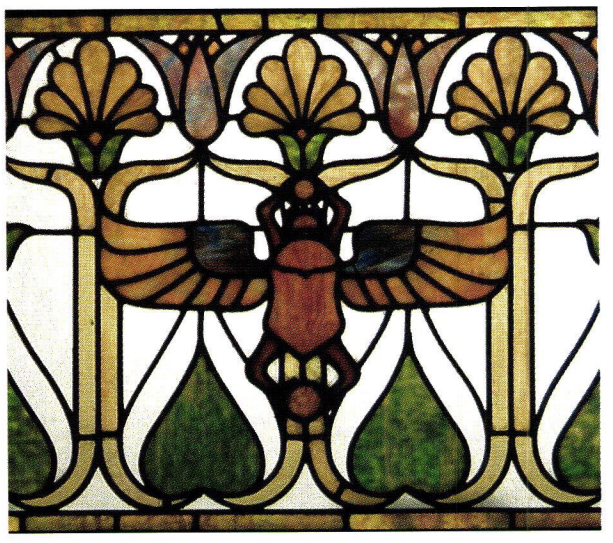
Manufacturer & distributor of custom decorative door & window products: ornamental iron door & window treatments; turnkey entry systems; protective & storm glazing; stained, beveled, etched/sandblasted & carved/cut glass; new designs & replications of historical patterns; for doors, windows, cabinet doors & more; stained-glass repair/restoration.

Metropolitan Artifacts
770-986-0007; Fax: 770-457-8670
www.metropolitanartifacts.com
Atlanta, GA 30341

Importer of European & American architectural antiques: stained- & beveled-glass windows; leaded & colored & leaded & painted/fired glass; antique stained glass; repair & restoration services for art glass; iron gates, garden statuary, fences & balconies; entry doors, door hardware, mantels, lighting, garden ornamentation; cast bronze, bronze, cast iron, iron & fiberglass; custom fabrication services. *Write in No. 308*

Rohlf's Stained & Leaded Glass Studio, Inc.
800-969-4106 Fax: 914-699-7091
www.rohlfstudio.com
Mount Vernon, NY 10550

Custom fabricator of art glass: leaded- & colored-glass patterns; antique stained & leaded & painted/fired glass; protective & storm glazing; beveled, etched/sandblasted & fused/slumped glass; new designs & replication of historical patterns; systems for restoring casement windows; custom designs & stained-glass repair/restoration. *Write in No. 6240*



Rohlf's Studio created this stained-glass piece for a residential application.

Soll's Antiques
207-474-5396; No fax
www.antiquestainedglass.net
Canaan, ME 04924

Supplier of more than 150 American antique stained-glass windows: leaded & beveled; entry doors; antique lighting & furniture. *Write in No. 1197*

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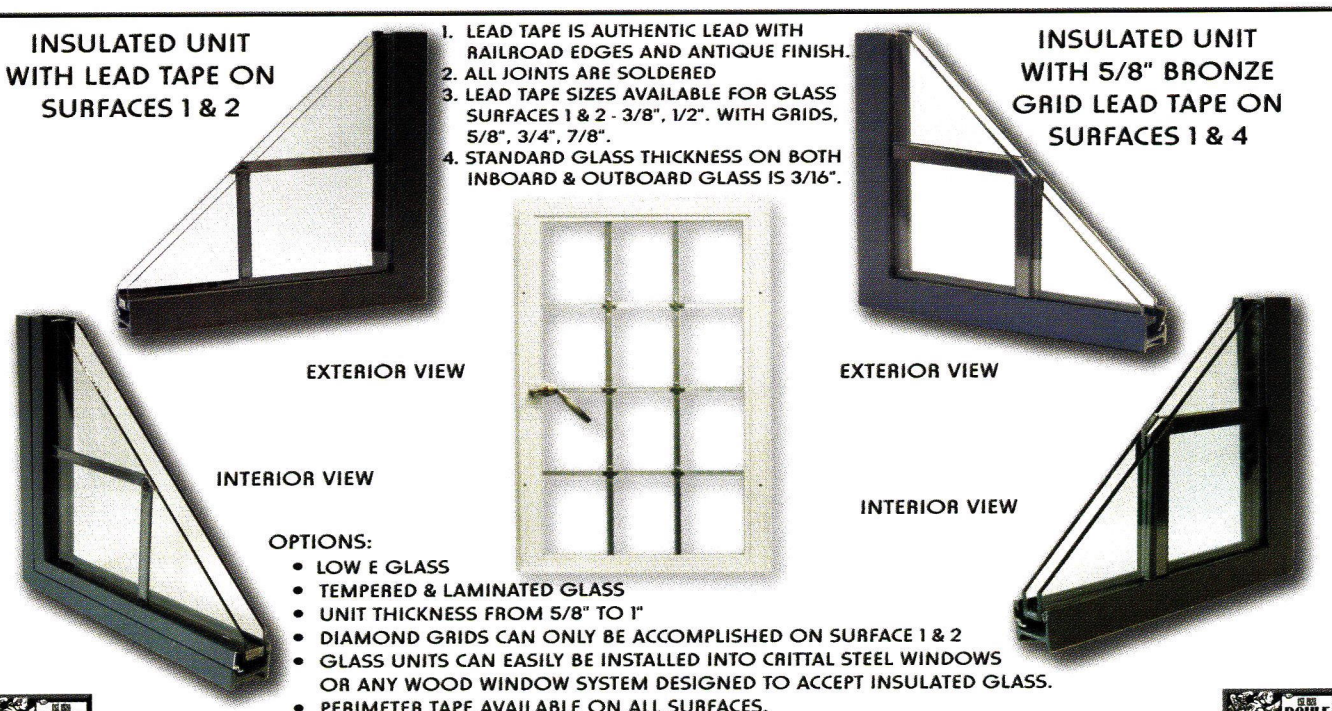
4. STANDARD GLASS THICKNESS ON BOTH INBOARD & OUTBOARD GLASS IS 3/16".

INSULATED UNIT WITH 5/8" BRONZE GRID LEAD TAPE ON SURFACES 1 & 4



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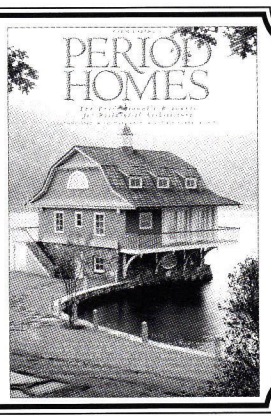


"When contacting companies you've seen in the issue, please tell them you saw their listing in Period Homes."
— The Editors

BUYING GUIDE TO LOG HOMES

Fitzgerald's Heavy Timber Construction, Inc.
301-898-9340; Fax: 301-898-9341
www.fitzgeraldtimberframes.com
Thurmont, MD 21788

Repairer of historic covered bridges, log homes & timber frames: hand-formed standing-seam & wood-shake roofing; complete restoration services; antique, new timber-framed & new horse barns; barn homes; new timbers & siding; installation of lightning-suppression systems; planing & sawing mill for custom fabrication. *Write in No. 2300*

◆ ◆ ◆

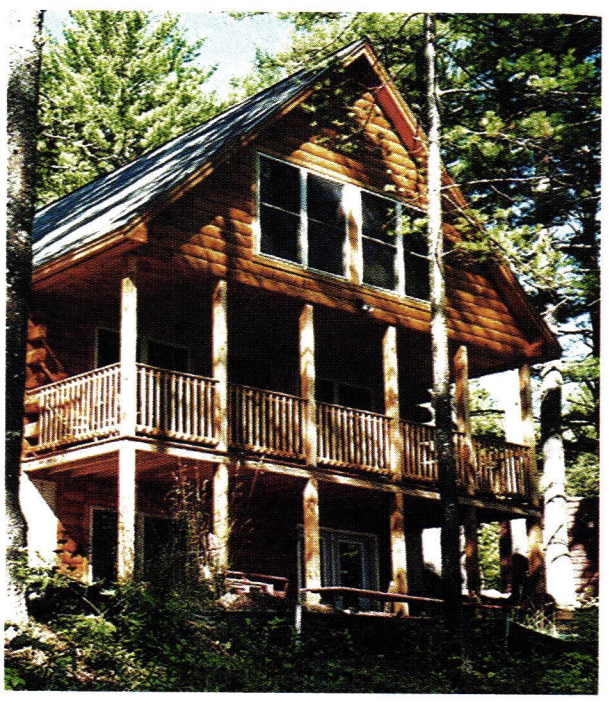
Gastineau Log Homes
800-654-9253; Fax: 573-896-5510
www.oakloghome.com
New Bloomfield, MO 65063

Manufacturer of oak log homes, log gazebos & outbuildings: commercial structures; design & engineering services; frame kits/packages; log stairs, siding & flooring. *Write in No. 1186*

◆ ◆ ◆

Moose Creek Log Homes
800-625-6446; Fax: 207-224-7376
www.moosecreekloghomes.com
Turner, ME 04282

Custom designer & manufacturer of complete log homes: foundation caps, lally columns, 3/4 ULC plywood subfloor & exterior solid log walls in kiln-dried white pine, white cedar or red cedar; exterior doors & windows, framing, interior doors, stairways & more; free drafting, design & pricing services; free site evaluation & delivery & boom unloading in New England.



Moose Creek Log Homes provides complete packages, from custom log buildings to kitchen cabinetry, bathroom vanities, countertops, closet hardware and shelving.

Wholesale Log Homes, Inc.
919-732-9286; Fax: Same as phone
www.wholesaleloghomes.com
Hillsborough, NC 27278

Manufacturer & wholesale distributor of new log homes, outbuildings, frame kits & log-home materials: kiln-dried & grade-stamped milled logs; dovetail & notched log corners & more; timbers, finished boards, decking & more; all sizes of timbers, rough or surfaced; screws, sealants & log siding.

"When contacting companies you've seen in the issue, please tell them you saw their listing in Period Homes."

—The Editors

CALL FOR ENTRIES

THE 2005 PALLADIO AWARDS

FOR EXCELLENCE IN TRADITIONAL RESIDENTIAL ARCHITECTURE

CO-PRODUCED BY:
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AND THE RESTORATION & RENOVATION
EXHIBITION AND CONFERENCE

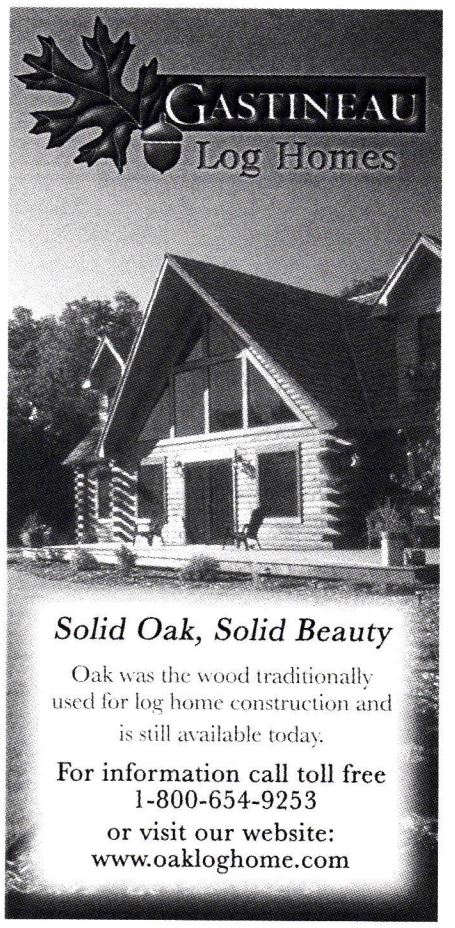
THE 2005 PALLADIO AWARDS
FOR RESIDENTIAL ARCHITECTURE
WILL BE PRESENTED IN FOUR CATEGORIES:

- Restoration & Renovation Projects
- Sympathetic Addition and Adaptive Reuse
- New Design & Construction under 5,000 sq. ft.
- New Design & Construction over 5,000 sq. ft.

Corresponding awards will also be made for commercial and civic projects.

Judging will be by a panel of distinguished architectural designers selected by the editors of PERIOD HOMES and TRADITIONAL BUILDING. For details on the awards program, judging criteria, submission requirements and deadlines, fax queries to (718) 636-0750 or download an entry form from www.period-homes.com.

The deadline for entries is November 15, 2004.



WRITE IN NO. 1186

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The Internet Gateway to Historical Products & Services for Residential Architecture

Product Literature

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PROFESSIONAL SERVICES

5470. Exterior Color Consultants – Consultant for historic homes & businesses: lecture services. **The Color People**

125. Greater Philadelphia Historic Home Show – Organizer of restoration & renovation shows featuring 18th-, 19th- & 20th-century structures: includes new projects that reflect historic properties. **Goodrich & Co.**

536. House Moving – Restoration firm: house moving, window restoration, wood carving, wood roofing & other wood projects. **Kronenberger & Sons Restoration**

1189. Trade Association – Promoter of building industry: information, education, research & technical expertise; since 1942. **National Association of Home Builders**

3380. Restoration Show – Largest show & conference in North America for restoration & renovation: send for information on upcoming events. **Restore Media Exhibitions**

PARKS & GARDEN SPECIALTIES

251. Iron Entry Systems – Supplier of custom, old-world-style, hand-forged iron entry systems & gates: nation-wide shipping. **Alamo Designs, Inc.**

469. Garden Accessories – Importer of original & antique Provençale garden accessories: historical interior & exterior architectural elements & antique flooring. **Authentic Provence, Inc.**

527. Exterior Accessories – Supplier of custom accessories: mailboxes; copper & aluminum weathervanes; aluminum, bronze & porcelain address plaques. **Custom Home Accessories**

2621. Outdoor Products – Supplier of decorative outdoor products: post caps, finials, arbors, pergolas, accessories & more. **Decorative Outdoor Products**

4020. Classical Cast-Stone Ornament – Designer & producer of traditional English architectural, landscape & garden elements: planters, fountains, columns, pavilions, sculpture & mantels. **Haddonstone (USA), Ltd.**

8077. Fasteners for Outdoor Construction – Supplier of stainless-steel & copper alloy fasteners for outdoor construction. **Swan Secure Products, Inc.**

8490. Garden Trellis – Supplier of arbors, trellis, pergolas & garden furniture: western red cedar & mahogany; custom work; extensive color catalog. **Trellis Structures**

4260. Arbors – Supplier of arbors, fences, gates, finials & lampposts: red cedar & PVC; Classical styles. **Wayside Fence Co.**

7160. Site Furnishings & Structures – Manufacturer of western red cedar furnishings: arbors, post caps, bridges, planters, wishing wells & more. **Wood Innovations of Suffolk**

STONE, BRICK & MASONRY

1174. Stonework – Manufacturer of stonework: exterior cladding, interior detailing & landscaping; standard & custom. **A.J. Rogac Ltd.**

406. Masonry Cleaning & Coating – Supplier of a non-toxic, water-soluble, baking soda-based gentle blast medium used for masonry cleaning. **ArmaKleen Company**

4270. Natural Stone – Supplier of limestone, granite & sandstone from 6 quarries: for landscaping, building veneer, wall stone, ashlars & more. **Champlain Stone, Ltd.**

410. Chimney Pots – Supplier of antique chimney pots in English & American styles: terra cotta; glazed & unglazed. **The Chimney Pot Shoppe**

1187. Chimney Relining & Fireplaces – Supplier of lightweight masonry fireplaces & chimneys made of Icelandic volcanic stone: standard, vent-free & vented gas units. **Earthcore Industries/Isokern**

5670. Top-Mounted Chimney Fans – Supplier of draft fans for high-temperature applications: for exhaust gases from all types of fuels. **Exhausto, Inc.**

6010. Architectural Terra Cotta – Supplier of custom architectural terra cotta, roof tile, clay piazza tile & other clay products. **Gladding, McBean**

804. Chimney Liners – Supplier of chimney-lining material: cast-in-place; restoration. **Guardian Chimney Lining**

3490. Chimney Pots – Manufacturer of hand-crafted terra-cotta chimney pots: standard & custom designs. **Northern Roof Tile Sales Co.**

5940. Chimney Liners – Supplier of chimney liners: to upgrade existing masonry chimneys used for venting gas, oil & wood heaters. **ProTech Systems/Ventinox**

392. French Limestone – U.S. division of French limestone company: more than 15 types of quarried stone. **Rossi USA Corp.**

1193. Flue Liners & Chimney Pots – Manufacturer of clay & refractory products: square & round clay flues, handmade decorative chimney tops, fireplaces & more. **Sandkuhl Clay Works**

1055. Ornamental Limestone – Fabricator of limestone carvings: architectural ornament; any period style; restoration services. **Texas Carved Stone, L.P.**

ORNAMENTAL METALWORK

1005. Ornamental Castings & Fabrications – Architectural metal foundry: new work & replications; any historical style; variety of alloys. **Allen Architectural Metals, Inc.**

9820. Registers & Grilles – Manufacturer of perforated & linear bar grilles & registers: standard & custom designs; aluminum, brass & steel. **Architectural Grille**

8610. Metal Grilles – Manufacturer of steel radiator enclosures & baseboard covers: replacement covers for fan-coil units; custom metal cabinets. **Arsco Mfg. Co.**

8069. Forged Furniture & Accessories – Fabricator of hand-forged beds, tables, lamps & other furnishings: residential & commercial. **Christopher Thomson Ironworks**

262. Water-Jet Cutting – Water-jet-cutting shop: custom panels for gates, railings, fences & more. **Colorado Waterjet Co.**

1490. Architectural Sheetmetal – Supplier of columns, cornices, dormers, cupolas, finials, conductor heads, spires, chimney caps & more: made with old-world skill using new technology. **CopperCraft, Inc.**

3056. Decorative Metalwork – Fabricator of decorative iron components & finishing details for metalwork. **Decorative Iron**

6560. Wrought-Iron Components – Fabricator of hundreds of patterns for railings, gates & other wrought-iron items: all elements in stock, ready to ship. **Indital, USA**

271. Metal Components – Fabricator of iron castings & steel forgings: more than 1,200 designs for fences, gates & ornamental metal installations; variety of metals. **Lawler Foundry Corp.**

5340. Decorative Metalwork – Manufacturer of ball tops, caps, spears & other decorative elements for fences & gates. **Liberty Ornamental Metal Products**

452. Decorative Architectural Ornament – Manufacturer of decorative architectural products: copper & zinc. **Ornametals, LLC**

5810. Brass & Iron Registers – Manufacturer of solid-brass & cast-iron registers: designs based on 19th- & early-20th-century originals. **Reggio Register Co., Inc.**

7730. Foundry, Forge & Fabrication – Fabricator of architectural metalwork: custom & restoration; glass, stone & FRP. **Schiff Architectural Detail**

1218. Forged Metalwork – Fabricator of forged metalwork: gates, railings & doors; interior & exterior applications. **Schwartz's Forge & Metalworks, Inc.**

941. Ornamental Metalwork – Supplier of ornamental metalwork: handrail fittings & ornamental hollow balls & hemispheres; tube bending for rail fabrication. **The Wagner Companies**

1223. Ornamental Metalwork – Family-run studio: fences, gates, balustrades & more; residential & commercial applications. **Wiemann Ironworks**

ARCHITECTURAL MILLWORK & COLUMNS

338. PVC Millwork Trim – Manufacturer of cellular PVC trim with the look & feel of lumber: rot-proof, low maintenance & easy installation. **AZEK Trimboards**

8182. Stairs & Stair Parts – Custom fabricator of stair parts & turnings: custom stair kits; circular, spiral & straight stairs; mantels & wainscoting; installation. **Adams Stair Works & Carpentry, Inc.**

90. British Master Wood Carvers – Supplier of hand-carved traditional wood ornament for mantels, architecture & furniture. **Agrell Architectural Carving Ltd.**

313. Arched Moldings – Manufacturer of architectural radius wood products: moldings, extension jambs & custom shapes for doors, windows & cased openings; custom profiles. **Arched Casings**

5008. Architectural Products – Supplier of ready-to-ship products: moldings, columns, capitals, niches & more; polyurethane, plaster & fiberglass. **Architectural Products by Outwater, LLC**

1177. Shutters – Manufacturer of Synthex custom exterior shutters: solid-panel, fixed-slat & wood shutters; period hardware. **Atlantic Shutter Systems**

521. Specialty Lumber Products – Lumber mill: western red cedar shakes & shingles; tapersawn & Victorian fancy cuts & tongue-&-groove flooring. **Bear Creek Lumber**

4110. Custom Shutters – Manufacturer of shutters: exterior & interior; paneled & louvered; original 19th-century machinery; antique shutter hardware. **Beech River Mill**

1580. Fiberglass Columns – Supplier of architectural fiberglass columns: ready to prime & paint, easy to install & maintenance-free; plain & fluted; interior & exterior. **Chadsworth's 1.800.Columns**

180. Classic Wood Columns – Custom manufacturer of architectural wood columns: authentic replications; variety of sizes, designs & wood species; interior & exterior; round, square & octagonal. **Chadsworth's 1.800.Columns**

3093. Millwork Tooling – Manufacturer of tools & machinery for molding & millwork: corner block tools & custom profiles. **Charles G.G. Schmidt & Co.**

1310. Victorian Millwork – Fabricator of millwork: fretwork, brackets, corbels, grilles, turnings & gingerbread; 19th-century designs; solid oak & poplar; molded-polymer architectural elements. **Cumberland Woodcraft Co.**

1107. Custom Stair Systems – Fabricator of custom staircases: straight, curved, circular & spiral stair systems. **Deer Park Stairbuilding & Millwork**

298. Architectural Woodwork – Fabricator of hand-carved furniture & architectural woodwork. **Erik Wyckoff Artworks**

8210. Columns & Turnings – Supplier of architectural ornament: moldings, curved crowns, porch posts, capitals & carvings; fluting & spiral & rope twists; turned & stavework columns. **Fagan Design & Fabrication, Inc.**

5040. Wood Floor Grates – Fabricator of wood registers, grilles & grates: unfinished or pre-finished. **Grate Vents**

6320. Rope Columns & Moldings – Fabricator of rope columns & moldings: many styles; custom woodturnings. **JMS Wood Products**

7990. Shutters – Manufacturer of shutters: movable-louver & raised-panel styles; authentic pegged mortise-&-tenon joinery; custom & traditional designs. **Kestrel Mfg.**

196. Exterior Shutters – Fabricator of mahogany exterior shutters: raised-panel, louvered & cut-out styles. **Kingsland Co. Shutters**

Architectural Trim – Fabricator of hand-crafted, custom-made 18th-century architectural trim: Colonial doors & windows, shutters, wall paneling, pediments & more. Call 860-633-2383 for more information. **Maurer & Shepherd, Joyners**

3050. Architectural Millwork – Custom architectural millwork shop: doors, windows & entryways. **Millwork Specialties**

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387. Shutters & Doors – Supplier of custom shutters & louvered doors: wide & narrow louvers; arches, sunbursts, slopes & quadrants; shoji screens. **Ohline Corp.**

274. Embossed Moldings – Fabricator of hardwood trim & moldings with embossed designs: wide selection of decorative styles & patterns. **Old World Mouldings, Inc.**

7070. Wood Columns – Manufacturer of millwork: balusters, newel posts, porch columns, railings & custom turnings; based on designs from 1870 to 1920; clear heart redwood, oak & mahogany. **Pagliacco Turning & Milling**

1152. Furniture & Cabinetry – Custom fabricator of furniture & cabinetry: cherry, maple, red & white oak, walnut, ash, poplar & other hardwoods from PA. **Paul Downs Cabinetmakers**

840. Stock & Custom Millwork – Manufacturer of stock & custom moldings, paneling & more in walnut: interior trim packages. **Select Millwork Co.**

6830. Shutters – Manufacturer of movable-louver shutters: interior & exterior applications; heart pine flooring. **Shutter Depot**

5005. Wood Shutters – Manufacturer of shutters: interior & exterior; pine & cedar. **Shuttercraft, Inc.**

652. Flooring for Porches & Decks – Supplier of Tendura-Plank composite lumber for porches & decks: factory-applied primer; rot-resistant. **Tendura**

7120. Victorian Millwork – Fabricator of screen doors, porch parts, custom woodwork, moldings, ornamental trim & gingerbread of all types: made from original period patterns. **The Wood Factory**

1056. Western Red Cedar Shutters – Custom fabricator of fixed-louver, raised-panel & recessed-panel shutters: shutter hardware. **Timberlane Woodcrafters, Inc.**

1061. Victorian Woodworks – Manufacturer of gingerbread, porch parts & other interior & exterior woodwork. **Vintage Woodworks**

1230. Cedar Shutters – Manufacturer of shutters in clear old-growth western red cedar: mortise-&-tenon joints with teak locking pins; 5 traditional styles; standard & custom sizes. **Vixen Hill Shutters**

1099. Custom Moldings – Fabricator of moldings: more than 100 embossed architectural profiles in stock; curved & radius. **White River Hardwoods-Woodworks**

455. Millwork, Paneling & Molding – Manufacturer of millwork, paneling & molding: Douglas fir, pine & redwood; paneling kiln dried. **Windsor One**

5240. Wood Carvings – Supplier of architectural elements: stair parts, capitals, posts & corbels. **Woodline Co.**

ROOFING MATERIALS, SIDING & ROOF SPECIALTIES

758. Snowguards – Supplier of snowguards for all types of roofs: new installations & retrofitting; consultation & engineering services. **Alpine Snowguards**

403. Lead Roofing – Supplier of traditional, long-lasting lead roofs: technical assistance. **American Eagle Roofing/Mayco Industries**

1182. Concrete Roof Tiles – Custom fabricator of color-blended, lightweight concrete roof tile: interlocking turret tile; slate-replica tile; wood-shingle replica tile. **Bartile Roofs, Inc.**

1183. Gutters & Leader Boxes – Supplier of gutter systems: Masterpiece European gutter systems; copper half-round & rectangular systems; brackets, hangers, miters & other gutter accessories. **Bruckner Group**

596. Architectural Sheetmetal – Supplier of finials, spires, dormers, leaders, chimney tops & other sheetmetal elements. **C&J Metal Products**

2901. Ridge Vents – Supplier of ridge vents for slate roofs. **Castle Metal Products**

1348. Roofing Contractor – Custom designer & fabricator of skylights: restoration of slate, asphalt & other roofs. **Charles River Restoration Co.**

1280. Gutter Products – Fabricator of seamless half-round gutters: copper & heavy aluminum; compatible with hidden nut-&-bolt hanging system. **Classic Gutter Systems, LLC**

1830. Metal Roofing – Manufacturer of shingles, gutters, leaders & galvanized roofing sheets. **Conklin Metal Industries**

217. Roofing – Manufacturer of standing-seam, shake, shingle & tile roofs: galvanized steel, aluminum & copper; leader boxes, gutters & leaders. **Custom-Bilt Metals**

3720. Slate & Copper Work – Restoration specialist: sheetmetal roofing & wood gutters. **The Durable Slate Co.**

605. Vermont Roofing Slate – Supplier of natural roofing slate: many colors, sizes & weights; can match slate for additions & restoration projects. **Evergreen Slate Co.**

9270. Slateline Shingles – Manufacturer of patented, extra-large roofing shingles: bold shadow lines & tapered cut-outs; class-A fire & wind rating. **GAF Materials Corp.**

1179. Country Estates Shingles – Manufacturer of Country Estates roofing shingles: 17x40 in.; aged oak, brownstone, burnt charcoal & other colors. **GAF Materials Corp.**

1181. Country Mansion Shingles – Manufacturer of Country Mansion roofing shingles: natural-stone or slate look; 17x40 in.; many colors. **GAF Materials Corp.**

1178. Grand Slate Shingles – Manufacturer of roofing shingles: look of slate; extra-thick tabs; 425 lbs. per square; class-A fire rating. **GAF Materials Corp.**

8052. Gutters – Supplier of a gutter attachment to prevent clogged gutters. **Gutter Topper**

6530. Cedar Shingles – Supplier of roofing, siding, decks & trim: western red cedar, Douglas fir, redwood, cypress & mahogany; roofing for historic projects; custom orders. **Liberty Cedar**

111. Roof Tiles – Custom manufacturer of clay roof tiles for restoration & new work: wide array of patterns, finishes & colors. **Ludowici Roof Tile, Inc.**

8300. Metal-Roof Restoration – Nationwide roofing contractor: extensive experience in sheetmetal fabrication & restoration. **NIKO Contracting**

4040. Clay Roofing Products – Supplier of clay roofing tile & related architectural clay products: all profiles, colors & finishes; handmade cresting & chimney pots. **Northern Roof Tile Sales Co.**

832. Gutter Systems – Manufacturer of gutter systems: U.S. distributor of Minoletti copper rain-gutter products & accessories. **Park City Rain Gutter**

5945. Roofing Sealants – Supplier of elastomeric joint sealants: solvent-free & V.O.C.-free formulations. **Polymeric Systems**

1191. Gutters – Supplier of gutter materials & equipment: copper gutter & leader boxes; decorative, ornamental & custom. **RainTrade Corp.**

1192. Copper Roofing – Supplier of copper & copper-based alloys: for roofing & other exterior construction; traditional flat sheets, gutter & leader coil & soft roll copper for flashing. **Revere Copper Products, Inc.**

1199. Skylights – Designer & builder of skylights: for homes, restaurants, pool houses & other spaces; conservatories & greenhouses. **RoofLanterns.com**

1195. Slate Roofing & More – Manufacturer of slate products: roofing, floor tile, flagging, monuments & kitchen counters & sinks. **Sheldon Slate Products Co., Inc.**

8062. Gutter Systems – Supplier of gutter systems, ridge cresting, finials, cupolas, dormers, dormer vents, downspout brackets, decorative copper, conductor boxes & slate roofing materials. **Slate & Copper Sales Co.**

304. Rain Chains & Decorative Accessories – Supplier of handmade, solid-copper decorative accessories: rain chains & cups; Arts & Crafts style. **Susan Hebert Imports**

4570. Tile Roofs – Supplier of clay-tile roofs: new & antique tile; consultation & installation. **Tile Roofs, Inc.**

DOORS, WINDOWS & HARDWARE

8350. Steel Windows & Doors – Manufacturer & installer of windows & doors: meets all Landmark requirements; can match profiles. **A&S Window Associates, Inc.**

1265. Historical Restoration – Custom fabricator of windows & doors with AWI premium-grade construction: replacement & storm & screen sash. **Adams Architectural Wood Products**

97. Hardware & Metal Restoration – Restorer of door & window hardware, plumbing fixtures & other metalwork. **Al Bar-Wilmette Platers**

365. Drapery Hardware – Supplier of cast-metal & resin curtain rods, rings, brackets & tiebacks: 7 finishes; Arts & Crafts & other period styles. **Alhambra Drapery Hardware Co., Inc.**

1004. Wood Window Restoration – Repairer & restorer of wood windows. **Allegheny Restoration & Builders, Inc.**

690. "Invisible" Storm Windows – Supplier of removable storm windows: any shape & color; interior & exterior; screen & glass panels; fixed, magnetic, sliding & lift-out styles. **Allied Window, Inc.**

1670. Builders Hardware – Supplier of door, window, cabinet & millwork hardware: window pulleys; cast bronze, brass & aluminum. **Architectural Resource Center**

3025. Windows & Entry Systems – Custom manufacturer of solid-timber windows, doors & entry systems: residential & commercial. **Architectural Windows & Entries, Inc.**

363. Hardwood Doors & Windows – Manufacturer of doors & windows: reproductions of historical weight-&-chain windows & landmark doors; custom & stock. **Artistic Doors & Windows**

2616. Traditional French Millwork – Supplier of period paneling, doors, moldings & more in French oak. **Asselin SA**

2930. Restoration Hardware – Supplier of authentic 18th- & 19th-century hardware: hinges, latches, pulls, shutter hardware & more; custom work & repairs. **Ball & Ball Hardware**

83. Cedar Windows & Doors – Custom manufacturer of windows & doors: clear western red cedar; many glazing options. **Bergerson Cedar Windows, Inc.**

1184. Wood Doors & Windows – Manufacturer of solid-wood windows & doors: custom designs & historical reproductions; complete millwork capabilities; paneled, carved, louvered, French pocket & more. **Caoba Doors**

368. Custom Windows & Doors – Custom fabricator of windows & doors: traditional joinery & energy-efficient weather stripping; numerous glazing options; tempered or antiqued leaded glass; true-divided lites. **Century Woodworking, Inc.**

379. Skylights & Glass Enclosures – Supplier of specialty glass products: window walls & skylights; glass-bullet & cast-iron panel system; glass blocks & pavers. **Circle Redmont, Inc.**

244. Victorian Hardware – Fabricator of Victorian hardware reproductions using the lost-wax method: custom cast lighting fixtures, casement hardware, window & sash locks, knobs, locksets, hinges, push plates & more. **Cirecast, Inc.**

2390. Interior Window Systems – Supplier of interior windows: provide soundproofing & high energy efficiency. **Cityproof Windows**

9600. Wood Screen Doors – Manufacturer of screen doors: many styles; any size; pine, Douglas fir, oak & mahogany; stained or painted. **Coppa Woodworking**

6980. Arts & Crafts-Style Hardware – Supplier of hand-hammered hardware: copper, bronze & brass sash lifts; doorknobs, handles & more. **Craftsmen Hardware Co.**

432. Historical Hardware – Supplier of door, window, cabinet, transom & specialty hardware: Victorian, Arts & Crafts, Colonial & Art Deco styles. **Crown City Hardware Co.**

1143. Doors & Windows – Manufacturer of wood doors & shutters & wood & metal windows: oak, mahogany & teak; hand-crafted hardware in bronze & brass. **Custom Trades International, Inc.**

109. Overhead Garage Doors – Designer of garage doors: overhead operators; carriage- & vintage-style; matching entry doors. **Designer Doors, Inc.**

1139. Replacement Windows & Sash – Fabricator of replacement windows & sash: any size or layout; circle, oval, round top & Gothic; custom moldings, doors & millwork. **Drums Sash & Door Co., Inc.**

2260. Hardware – Supplier of door hardware, bath fittings & cabinet & furniture mounts: lighting & more; all metals; all periods. **E.R. Butler & Co.**

717. Wood Doors & Windows – Custom designer of all-wood windows: any size or shape; true-divided lites; unusual muntin patterns; choice of weather stripping. **Enjo Architectural Millwork**

2540. Hardware – Manufacturer of door hardware: locks, hinges, escutcheons, pulls, pendants, decorative nails & more. **European Hardware & Finishes/Gerber Hinge Co.**

1910. Custom & Historical Reproduction Windows – Fabricator of wood windows: Prairie style; leaded glass; residential & commercial work. **Grabill Windows & Doors**

419. Wood Windows – Custom manufacturer of all-wood windows: round top, oval & casement; bulls-eye, wavy & stained glass with argon filling option; custom shapes; historical replication. **Green Mountain Glass**

343. Handmade Hardware – Manufacturer of handmade hardware since 1857: for baths, doors, furniture, light fixtures, tables & more. **P.E. Guerin**

6640. Traditional Garage Doors – Fabricator of custom wood garage doors. **Hahn's Woodworking Company, Inc.**

3570. Custom Doors & Entryways – Custom fabricator of wood windows & doors: circular casings & moldings; interior & exterior; historical restoration work. **Historic Doors by Hendricks**

339. Hardware – Supplier of hardware: for doors, windows & cabinets; original & antique reproductions; Arts & Crafts & Victorian styles. **House of Antique Hardware**

909. Glass Interior Storm Windows – Manufacturer of easy-to-install, custom glass interior storm windows for energy conservation. **Innerglass Window Systems**

360. Antique Hardware – Supplier of antique designer hardware for doors, windows & cabinets. **Jamar International**

1240. Shutter Hardware – Fabricator of shutter hardware: hinges, shutter dogs, bolts & ring pulls. **James Peters & Son, Inc.**

1188. Wood Windows & Doors – Custom fabricator of wood windows & doors: all shapes & sizes; all glazing options. **KSD Custom Wood Products, Inc.**

Custom-Forged Hardware – Full-service blacksmith shop: hardware, fireplace tools & more; repair & restoration. Call 828-667-8868 for more information. **Kayne & Son Custom Hardware, Inc.**

4573. Custom Wood Entries – Custom fabricator of wood doors & entryways: full range of glazing options, art glass & insulated glass; Honduras mahogany. **Kingsland Co. Doors**

472. Wood Window Systems – Manufacturer of windows in West Coast Douglas fir: double & secondary weather stripping; metal cladding; large sizes & innovative operating models. **Loewen**

7600. Door & Window Hardware – Exclusive importer of a wide range of traditional house hardware: more than 21,000 items. **Maguire Iron Corp.**

2800. Door Hardware – Manufacturer of hand-cast period door & shutter hardware: authentic reproductions. **D.C. Mitchell**

1150. Period Hardware – Manufacturer of door & window hardware: 19th-century European, Moderne & Art Deco styles. **Nanz Custom Hardware, Inc.**

285. Custom Forged Hardware – Fabricator of wrought-iron Early American hardware for doors, windows & shutters: consultations. **Old Smithy Shop**

3003. Wood Windows – Fabricator of wood & clad-wood windows: all architectural shapes; commercial & residential. **Parrett Windows**

1520. Hardware & Ironwork – Designer & fabricator of cast-bronze hardware & hot-forged, hand-wrought ironwork: doors, gates, staircases & lighting. **Patten Design**

4240. Interior Storm Windows – Supplier of interior insulating windows: Flextite Winsulator line. **Petit Industries, Inc.**

6001. Traditional Window & Door Hardware – Manufacturer of door & window hardware, pulleys & weights: precision specs. **Phelps Company**

3055. Vinyl-Clad Wood Windows – Manufacturer of vinyl-clad wood windows: oak, pine & maple; commercial & residential. **Pollard Windows, Inc.**

1048. Counterbalances – Manufacturer of counterbalances: for doors, windows, hinged panels & other applications. **Pullman Mfg. Corp.**

3590. Steel Casement Windows – Supplier of vintage windows & doors: steel casement; residential, commercial & historical applications; window repair. **Seekircher Steel Window Repair Corp.**

857. Doors – Fabricator of reproduction doors, sidelites, transoms & assemblies. **Sheppard Doors & Glass**

8870. Metal Windows – Distributor of steel windows: restoration & replication windows; for historic landmarks & commercial, government & residential buildings. **Skyline Windows**

619. Architectural Millwork – Manufacturer of windows, doors & more: 18th-century double-hung windows. **Sun Architectural Woodworks**

3054. Landmark Steel Windows – Supplier of steel windows: designed to preserve historical narrow sight lines; high thermal & acoustic performance. **Tempest Architectural Products**

5320. Interior Storm Windows – Supplier of storm windows: many fastenings & glazing options. **Thermo-Press Corp.**

1196. Hardware – Manufacturer of hardware for windows, patio doors & skylights: windows in wood, vinyl & metal; knobs, locksets, hinges, escutcheons, lever handles & more. **Truth Hardware**

413. Window & Door Hardware – Supplier of hardware for windows & doors. **Ultra Hardware Products**

1101. Storm & Screen Doors – Custom fabricator of screen & storm & screen/storm combination doors: Victorian, Mission, Colonial & other styles; oak, pine & poplar. **Victoriana East**

315. Hardware – Manufacturer of doorknobs, escutcheons, hinges, mortise locks, slide bolts, box locks, standard designs & patterns: European hardware. **Whitechapel, Ltd.**

9640. Wood Doors & Windows – Custom fabricator of wood windows & doors: any size, shape & species; mortise-&-tenon joinery; historical reproduction. **Wood Window Workshop**

8430. Specialty Wood Windows – Supplier of palladians & straight & fan transoms: single-, double- & triple-glazed & thin muntins; solid-wood doors with insulating core. **Woodstone Co.**

3061. Custom Wood Windows – Custom fabricator of fixed, arched & double-hung windows: pine & mahogany. **Woodworks Company**

FLOORS, WALLS, CEILINGS, FINISHES & MOLDED ORNAMENT

8920. Tin Ceilings – Supplier of Victorian & Art Deco tin-ceiling panels: 26 patterns; 2x8-, 2x4- & 2x2-ft. panels for nail-up or lay-in; 13 cornices, pre-cut miters & 2x2-ft. center medallions. **AA-Abbingdon Affiliates**

490. Wallpaper – Manufacturer of hand-joined, woodblock-printed distemper wallpaper, borders, friezes & fireboards: traditional methods & materials; full line of document patterns ca. 1750-1850. **Adelphi Paper Hangings LLC**

172. Historical Tile – Supplier of historical tile: encaustics, custom mosaics & kitchen & bath tile; custom matching of glazed & unglazed tile. **American Restoration Tile, Inc.**

8230. Arts & Crafts Fabrics – Manufacturer of reproduction & custom-designed textiles: yardage, curtains, pillows, bedspreads, table linens & scarves. **Arts & Crafts Period Textiles**

Victorian Wallpaper – Designer of wallpaper: borders, fills & patterns; catalog shows 10 room sets; Neo-Grec, Arts & Crafts, Morris, Aesthetic Movement & more. Call 707-746-1900 for more information. **Bradbury & Bradbury Art Wallpapers**

447. Stamped-Metal Ceiling Panels – Supplier of decorative ceilings: panels are 2x2 ft.; tin, copper, brass & pewter; medallions, moldings, cornices, rosettes & more. **Brian Greer's Tin Ceilings, Walls & Unique Metal Work**

5580. Custom Wood Flooring – Supplier of paneling & flooring: white pine, red oak, heart pine, southern yellow pine & cherry. **Carlisle Wide Plank Floors**

190. Pressed-Tin Panels – Supplier of pressed-tin panels for ceilings & walls: 18 patterns; Victorian to Art Deco; several exclusive patterns; cornices in 4-ft. lengths. **Chelsea Decorative Metal**

4320. Extra-Wide Wood Flooring – Supplier of pine boards for flooring or paneling: widths from 12 to 24 in.; kiln dried; wide oak flooring from 4 to 9 in.; custom moldings & millwork; dual wainscoting. **Craftsman Lumber Co.**

210. Molded Ornament – Supplier of molded ornament: variety of historical styles; plaster & compo; wood mantels. **Decorators Supply Corp.**

4690. Faux-Finishing Products – Manufacturer & supplier of water-based decorative & faux-finishing products: classes offered. **Faux Effects International, Inc.**

1960. Plaster Ornament – Fabricator of architectural ornament: hundreds of Turn of the Century molds; custom duplication from your sample; fiber-reinforced plaster. **Fischer & Jirouch**

4900. Flexible & Rigid Moldings – Manufacturer of flexible & rigid moldings, spot decorations & simulated wood carvings: for furniture & walls; custom reproductions in polymers & polyesters. **Flex Moulding, Inc.**

124. Wood Flooring – Supplier of heart & long-leaf yellow pine flooring, large timbers & more. **Foster Wood Products Inc.**

354. Imported Tile – Supplier of antique roof, flooring & decorative tile imported from Spain: terra-cotta flooring tile; tile domes. **Hultzen-Maqueda**

4910. Authentic Pigments – Supplier of authentic earth pigments to recreate the exact look of historical finishes. **Kremer Pigments, Inc.**

1120. Moisture Meters – Manufacturer of wood moisture meters for lumber: dry-kiln controllers. **Lignomat USA, Ltd.**

340. Tin Ceilings – Manufacturer of tin ceilings: antique reproduction panels. **M-Boss, Inc.**

6100. Ceramic Tile – Fabricator of hand-painted & custom relief tile, friezes & murals: reproductions & glaze matching; terra-cotta tile. **Nocera Art Tile**

793. Ceramic Tile – Supplier of ceramic tile: custom color matching & reproductions of antique tile; new tile designs & Arts & Crafts-influenced relief tile. **North Prairie Tileworks**

5880. True Milk Paint – Supplier of 16 colors of milk paint: barn red, mustard, Federal blue & more; for use as wash, full-cover coat or for stenciling; mixes with water. **The Old Fashioned Milk Paint Co.**

2880. Gold-Leaf Supplies – Supplier of gold leaf in booklets or rolls: oil sizes, Kolner burnishing clays for water gilding, imitation gold & aluminum leaves & rolls. **Sepp Leaf Products, Inc.**

6. Wide-Plank Flooring – Manufacturer of flooring: new & re-milled antique wood; stair parts & antique beams. **The Woods Co.**

2846. Encaustic Tile – Supplier of floor & wall tile: new & reproduction encaustic tile. **Tile Source, Inc.**

399. Metal-Leaf Products – Supplier of gold, silver & aluminum leaf & other gilding products: from Germany, Italy & the U.S. **W.H. Coe, Inc.**

8064. Wood-Floor Finishes – Supplier of tung-oil products: oil- & water-based finishes for wood floors; since 1916. **Waterlox Coatings Corp.**

SPECIALTIES

2590. New & Restored Rumford Fireplaces – Supplier of the classic Rumford fireplace: ideal for new construction; old fireboxes can be converted. **Buckley Rumford Co.**

189. Custom Roofing Ornament – Fabricator of hand-crafted leader heads, weathervanes, spires, finials & ornament: made from stock patterns or to clients' specs. **Hans Liebscher Custom Copper Works & Sheet Metal, Inc.**

5390. Mantels & Architectural Elements – Fabricator of carved-stone mantels & architectural elements: fountains, columns, moldings, benches & more. **Limestone Concept, Inc.**

1264. Cupolas, Vents & Louvers – Manufacturer of cupolas, vents, finials, spires & weathervanes: many shapes & sizes; stock & custom. **New Concept Louvers**

370. Pigeon Control – Supplier of bird-control products: inconspicuous stainless-steel needles eliminate roosts without harming the building; humane & practical. **Nixalite of America, Inc.**

282. Cast-Stone Mantels – Supplier of cast-stone mantels: technical assistance for installations. **Old World Stoneworks**

9067. Cast-Stone Mantels – Supplier of cast-stone mantels with the look & feel of natural cut limestone. **Stone Magic**

1198. Weathervanes – Metalworking studio: sculpture & weathervanes; freehand hammered from copper, brass, leaded copper & stainless steel; full bodied, swell bodied & silhouette. **Weathervane Sculpture**

3096. Wine Racks & Cellars – Designer & fabricator of wine racks & wine storage systems. **WineRack.com**

EQUIPMENT & TOOLS

448. Machines for Cutting EPS – Manufacturer of computer & manual machines for cutting expanded polystyrene: coated & applied or cut into plugs &/or molds for making precast-concrete architectural details. **Hotwire Direct**

SCULPTURE, ART GLASS, MURALS & FURNISHINGS

2510. Custom Art Glass – Supplier of hand-beveled-, stained- & etched-glass windows, screens & tables: residential & commercial installations. **Art Glass of the South, Inc.**

1144. Decorative Glass Ornament – Fabricator of newels & ornament in decorative glass. **Glass Art of New England**

9440. Specialty Glass – Supplier of glass: prismatic, translucent, textured, stained & hand-blown. **Hollander Glass Central, Inc.**

6240. Stained Glass – Designer, fabricator & restorer of stained-, leaded-, faceted-, beveled- & etched-glass panels. **Rohlf's Stained & Leaded Glass Studio**

1197. Antique Stained-Glass Windows – Supplier of more than 150 American antique stained-glass windows: leaded & beveled; lighting & furniture. **Soll's Antiques**

GAZEBOS, TIMBER FRAMES, CONSERVATORIES & SPECIAL CONSTRUCTION

382. Custom Conservatories – Supplier of custom conservatories, lantern-roof systems & other custom glass fabrications. **Colebrook Conservatories**

5270. Heavy Timbers – Supplier of pine, hemlock & oak timbers up to 26 ft.: pine pattern stock & grade-stamped timbers. **Cowls Lumber**

2300. Covered-Bridge Repair – Contractor of timber-frame & historic-bridge repairs: engineering services, custom milling & new construction. **Fitzgerald's Heavy Timber Construction, Inc.**

1186. Log Structures – Manufacturer of oak log homes, gazebos & outbuildings: frame kits; log stairs, siding & flooring. **Gastineau Log Homes**

663. Heavy-Timber Products – Timber framer: trusses, additions & timber-frame buildings of all kinds. **Hugh Lofting Timber Framing, Inc.**

1194. Post-&-Beam Homes – Designer of paneled post-&-beam homes: glulam beams; western red cedar; shingles, large overhangs, ice & weather shields & more. **New Dimension Homes, Inc.**

6860. Bespoke Conservatories – Supplier of English conservatories: custom built & hand crafted; glass, wood & metal. **Oak Leaf Conservatories of York**

378. Wood Conservatories – Supplier of sunrooms, conservatories & greenhouses: delivered pre-assembled; solid-brass hardware; double-insulated glazing & other glazing options; redwood & mahogany. **Renaissance Conservatories**

391. Glazed Structures – Designer, manufacturer & installer of glazed structures: conservatories, greenhouses, skylights, pool & spa enclosures & more. **Solar Innovations, Inc.**

134. Timber Framing & Wood Supply – Supplier of kiln-dried eastern white pine: 14 to 20 in. widths standard. **South County Post & Beam**

8270. Period Conservatories & Glass Houses – Builder of conservatories & glass houses: individually designed, hand crafted & installed. **Tanglewood Conservatories, Ltd.**

394. Conservatories & Sunrooms – Manufacturer of Lord & Burnham line of conservatories, sunrooms, greenhouses & more: aluminum & glass; custom & standard. **Under Glass Mfg. Corp.**

8540. Timber Frames – Manufacturer of traditional timber-frame structures: many styles; many wood species; reclaimed timbers; nationwide. **Vermont Timber Frames, Inc.**

927. Timber Frames – Timber framer: residential & commercial; all forms of heavy-timber construction. **Vermont Timber Works, Inc.**

Greenhouses & Conservatories – Supplier of custom greenhouses & conservatories: constructed from new & antique greenhouse materials; restoration parts & services. Call 978-369-1354 for more information. **Ward Greenhouses**

ELEVATORS, LIFTS & DUMBWAITERS

2617. Remote-Controlled Lifts – Supplier of dumbwaiters & vertical lifts: products that lift & lower TVs, projectors & speakers. **Auton Motorized Systems**

9980. Elevators & Lifts – Manufacturer of elevators & lifts for residential applications. **Inclinator Co. of America**

7280. Vertical Lifting Products – Manufacturer of residential elevators, accessibility lifts & dumbwaiters: specialty gates & interlocks. **Waupaca Elevator Co., Inc.**

PLUMBING, BATH & HEATING

3760. Hardware & Bath Accessories – Supplier of tubs, toilets, bidets, faucets & more: plumbing accessories; reproduction period hardware. **Kolson, Inc.**

2940. Victorian Showerheads – Supplier of showerheads: 169 holes on an 8-in.-dia. face; shower-arm bracket or installs with ½-in. standard fittings. **Sunflower Shower Co.**

288. Bathroom Fixtures – Supplier of Victorian-style bathroom fixtures: clawfoot tubs, oak tank toilets, shower fittings & water closets. **Sunrise Specialty Co.**

64. Bath Resurfacing – Supplier of unique & extensive service in renovation of antique period bathtubs. **The Bath Works**

LIGHTING & ELECTRICAL

7850. Motorized Light Lifts – Manufacturer of light lifts for chandeliers & other fixtures: up to 300-lb. fixtures raised & lowered for easy maintenance. **Aladdin Light Lift, Inc.**

436. Historical Lighting Fixtures – Restorer of historical & custom lighting fixtures: chandeliers, sconces, pendants, lanterns & lamps; many styles; replications. **Aurora Lampworks, Inc.**

60. Reproduction Lighting – Manufacturer of hand-crafted 18th- & 19th-century solid-brass lighting fixtures: chandeliers, sconces & table lamps. **Authentic Designs**

7660. Reproduction Lighting – Supplier of reproduction lighting: 18th- & early-20th-century styles; residential, commercial & institutional; standard & custom designs. **Ball & Ball Lighting**

166. Outdoor Gas Lighting – Supplier of gas-burning & electric lighting: solid copper & brass. **Bevolo Gas & Electric Lights**

371. Switches – Supplier of UL-listed push-button switches: plain or ornamental brass & wood plates; brass molding hooks. **Classic Accents, Inc.**

Lighting & Weathervanes – Supplier of lighting: interior & exterior; Leadtex sconces provide tin look found in old designs; copper weathervanes & cupolas. Call 800-281-9798 for more information. **Copper House, The**

1185. Gaslights & Accessories – Distributor of patio torcheries, burners, burner tips, valves, panes & globes; finials & gaslight mantles. **Gaslight America West**

8041. Forged Lighting – Blacksmith: chandeliers, wall sconces, pendants & exterior lighting. **Hans Duus Blacksmith, Inc.**

9130. Lighting Fixtures & Accessories – Manufacturer of cast light fixtures, posts, bollards, street furniture, antique fence posts & street clocks: custom sand casting. **Herwig Lighting**

680. Interior & Exterior Lighting – Supplier of interior & exterior fixtures: post lights, lanterns & garden lighting; cast aluminum, wrought iron & brass. **Hinkley Lighting**

1210. Ornamental Metalwork & Lighting – Designer & custom fabricator of ornamental metalwork: lighting; works from spec or creates designs for approval; iron, aluminum & bronze. **Historical Arts & Casting, Inc.**

267. Custom Exterior Lighting – Custom designer & fabricator of exterior lighting: traditional, Tudor, French, Asian & contemporary styles. **Lantern Masters, Inc.**

336. Vintage Lighting – Supplier of table lamps, sconces, chandeliers & bridge lamps: original designs in cast brass. **Luminaria Lighting, Inc.**

7630. Reproduction Lighting – Manufacturer of reproduction chandeliers & sconces: for residential, commercial & government interiors; historically accurate; solid brass & cast iron. **Rejuvenation**

430. Vintage Lighting – Supplier of period lighting: ceiling fixtures, chandeliers, pendants, flush mounts, sconces & glass shades; Victorian, Turn of the Century, Mission & other styles. **Roy Electric Lighting Co.**

483. Ironwork & Lighting – Manufacturer of hand-crafted lighting: traditional styles; more than 250 choices of UL-certified lighting; firescreens, ornament & more. **Steven Handelman Studios**

316. Ceiling Fans – Supplier of ceiling fans with wooden blades & hand-cast metal parts: belt-driven model & classic two-blade design. **Woolen Mill Fan Co.**

ARCHITECTURAL ANTIQUES & SALVAGED BUILDING MATERIALS

2744. Recycled Barn-Wood Planks – Supplier of recycled barnwood planks, re-milled antique flooring, dimensional lumber & timbers: architectural antiques, windows, doors, columns & shutters; wholesale prices; ever-changing inventory. **Carlson's Barnwood Co.**

7480. Antique Wide-Board Flooring – Supplier of flooring, barn wood & beams: furniture made from 19th-century barn wood. **Country Road Associates, Ltd.**

Antique Hardware – Supplier of antique door hardware, furniture hardware & twist bells. Visit www.eugeniaantiquehardware.com for more information. **Eugenia's Antique Hardware**

Restored Antique Appliances – Supplier of cookstoves, parlor stoves & gas ranges: restoration & conversion of appliances. Call 888-282-7506 for more information. **Good Time Stove Co.**

Web Addresses of Advertisers in this Issue

PROFESSIONAL SERVICES

Goodrich & Company . . . . . .www.historichomeshow.com
Kronenberger & Sons Restoration . . . . . .www.kronenbergersons.com
National Association of Home Builders . . . . . .www.buildersshow.com

PARKS & GARDEN SPECIALTIES

A&M Victorian Decorations . . . . . .www.aandmvictorian.com
Authentic Provence . . . . . .www.authenticprovence.com
Decorative Outdoor Products . . . . . .www.decorativeoutdoorproducts.com
Florentine Craftsmen . . . . . .www.florentinecraftsmen.com
Haddonstone (USA) . . . . . .www.haddonstone.com
Liberty Ornamental Products . . . . . .www.briandiecast.com
Limestone Concept . . . . . .www.limestoneconcept.com
Trellis Structures . . . . . .www.trellisstructures.com
Wayside Fence Co. . . . . .www.waysidefence.com

STONE, BRICK & MASONRY

A.J. Rogac Ltd. . . . . .www.stonemasonsarch.com
ArmaKleen Company . . . . . .www.armex.com
Champlain Stone . . . . . .www.champlainstone.com
Chimney Pot Shoppe, The . . . . . .www.chimneypot.net
Exhausto . . . . . .www.us.exhausto.com
Guardian Chimney Lining . . . . . .www.guardianinc.com
ProTech Systems/Ventinox . . . . . .www.protechinfo.com
Sandkuhl Clay Works . . . . . .www.sandkuhl.com
Texas Carved Stone, L.P. . . . . .www.texascarvedstone.com

ORNAMENTAL METALWORK

Allen Architectural Metals . . . . . .www.allenmetals.com
Architectural Grille . . . . . .www.archgrille.com
Arsco Mfg. Co. . . . . .www.arscomfg.com
Brian Greer's Tin Ceilings, Walls & Unique Metal Work . . .www.tinceiling.com
Chelsea Decorative Metal . . . . . .www.thetinman.com
Christopher Thomson Ironworks . . . . . .www.ctiron.com
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Understanding the Adirondack Style

Adirondack Style *features the architecture of the Great Camps of the Adirondacks. This camp, designed by Saranac Lake-based architectural firm Wareham-De Lair, and built in 1986, incorporates the stone pergola and boathouse from the original cabin built on the site. Photo: Gary R. Hall (All photos from* Adirondack Style, *courtesy Clarkson Potter)*

Adirondack Style
by Ann Stillman O'Leary; photographs by Gary R. Hall
Clarkson Potter, New York, NY
180 pp; softcover; more than 200 color photographs
$27.50; ISBN 0-609-80235-6

by Marieke Cassia Gartner

The Adirondack Park, which covers one fifth of New York State, is an area larger than the Grand Canyon, Yellowstone and Yosemite combined. Log houses are considered by many to be typical of the area, however, the architecture of the region goes far beyond that. Ann Stillman O'Leary's *Adirondack Style* brings the reader into the world of this style beginning with a study of the Great Camps, accompanied by plentiful photographs and punctuated with explanations of the different elements of the style, materials and comparisons of new interpretations of the style with originals.

The book's introduction by Elizabeth Folwell, the Editor of the monthly magazine *Adirondack Life*, offers a 14-page history of the Adirondacks and how the Great Camps came about. The following chapters are full of photographs of the famous Camps and the lavish and often overdone homes that were inspired by them. O'Leary covers every aspect of the style, beginning with a comprehensive "Primer on Camp Style" that starts in the 1700s with the lean-to and ends at the turn of the 21st century with a return to the style established in the 1800s. She covers topics from exteriors to interiors, from furniture and embellishments to a "Camp Guide" that concludes the book. The "Camp Guide" includes a list of camps in the Adirondacks with building dates and architect names; information on tours, lectures and other ways to see or learn about the Great Camps; a selected bibliography; a list of companies that are involved in the style, including architects and their contact information; and a list of lodging that "will leave the guest with a lasting impression of the Adirondacks, and a desire to return."

The exteriors of these camps, O'Leary says, have no architectural precedent, but similarities can be seen in the rustic mountain architecture of places with similar climates, such as parts of Switzerland, Germany, Scandinavia, Russia and Japan. Adirondack interiors, on the other hand, reference certain styles in such furnishings as Victorian tufted sofas and Arts and Crafts lighting. The Adirondack style has been subject to trends, for instance the 1960s' A-frame chalets and the 1980s' "Country" movement, but a return to the Great Camp tradition in 1986 brought the style back to its origins, with a few changes. O'Leary documents each moment of the style since its birth, its changes and influences and the reasons these changes came about.

While the Great Camps began as summer vacation spots, today more and more are winterized for year-round occupancy. Exteriors built today reflect this in their foundations (summer homes often lacked foundations). Log and stone are the most popular indigenous materials to be used, including hemlock, spruce and cedar and river rock, fieldstone, cut or hewn granite, limestone, sandstone and anorthosite, depending on what part of the Park you're in.

Camp Cedars, a camp built in the 1890s by Frederick Durant, is one of the original buildings that helped to shape the Adirondack style today. Photo: Margaret Bourke-White, 1933

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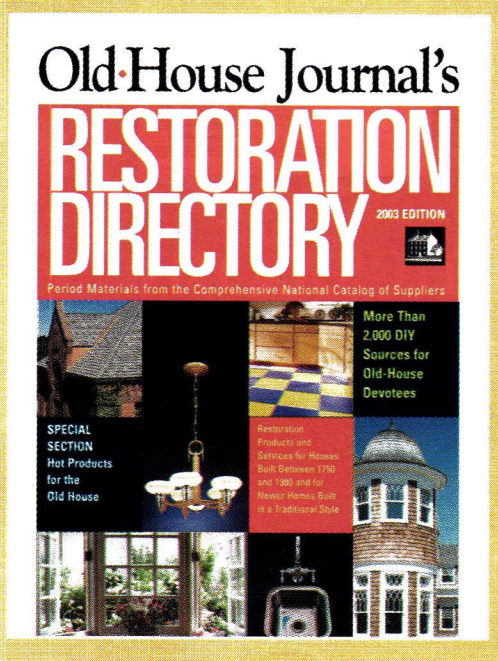

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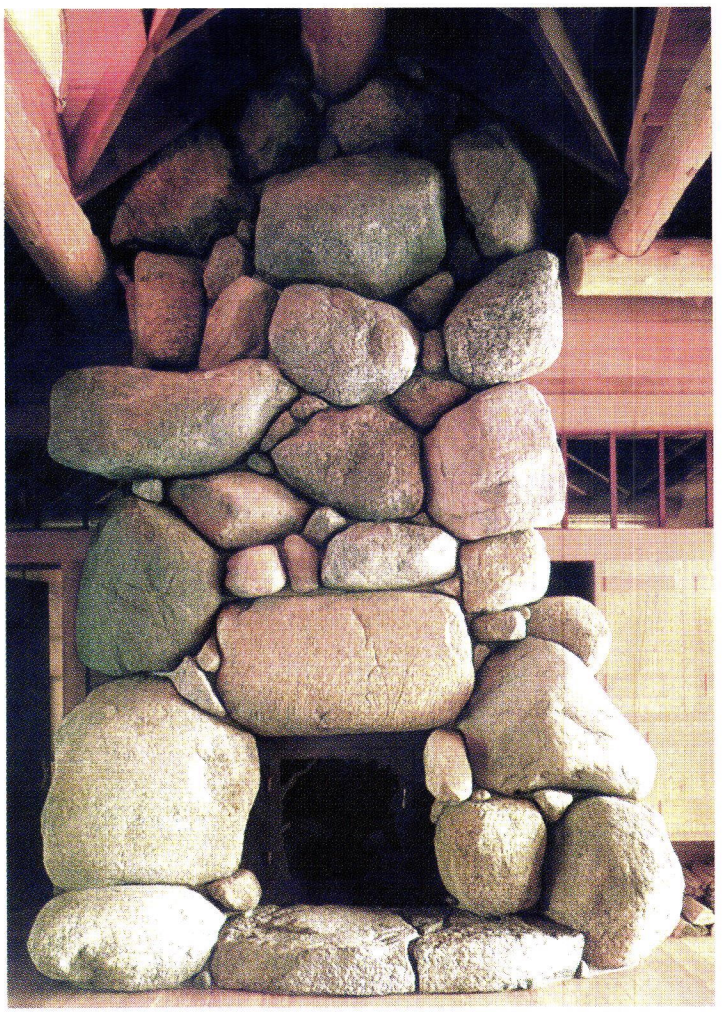


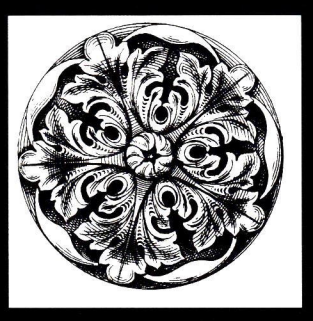
Above: This screened-in porch features antique hickory, birch and wicker. Photo: Gary R. Hall

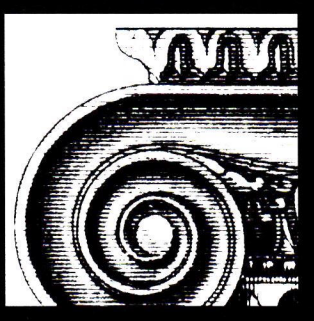
Right: Designed by Bohlin Cywinski Jackson, this fireplace is characterized by massive granite boulders. Photo: Karl A. Backus

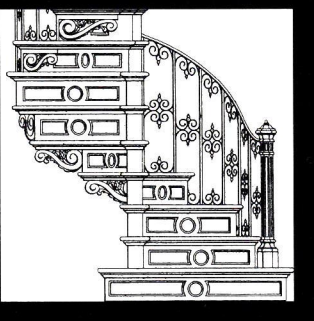
O'Leary also talks about roofing, windows and doors in terms of insulation, wood species, shapes and materials. "The front door", O'Leary says in the book, "should capture the character of the camp and set the tone for the inside of the house", while the windows are "the eyes of the house". Other exterior features covered include color, lighting, boats, boathouses and outbuildings.

The history of the interiors of the Great Camps is harder to determine. There are only "scattered morsels of information," in terms of writings, according to O'Leary, while black-and-white photographs offer only a few clues. However, from remaining Camp furnishings O'Leary pieces together a timeline of materials and furnishings used from the 1870s on. Travel, she claims, seems to have been a major influence on the furnishings in the Camps. Native American crafts were brought from the newly opened railroad lines to the West. A Japanese influence was also present, especially after Japan opened itself to trade around 1870 and the style became very popular. Other elements popular in the Adirondack Camps were Mission furnishings and Craftsman-style lighting fixtures, along with components that reflect a "return to nature" and a love for the exotic. O'Leary claims that contemporary interiors are returning to the ideals of fine craftsmanship, appreciation of nature and things of simpler shape than in past decades. In the interiors section, she discusses wall treatments, interior bark and twig work and flooring.

If you're partial to taxidermy, the book features animals from mountain lions to raccoons as decorations. (Ironically, while Folwell pointedly notes that wolves have been hunted out of the region, O'Leary features one home that has a wolf pelt hanging over a bench and one on a table.) O'Leary claims that taxidermy enhances the camp interior, implying outdoorsmanship. As alternatives to those "who don't care for the implications of taxidermy," O'Leary suggests hanging fly-fishing rods and mounted lures, among other things. ◆







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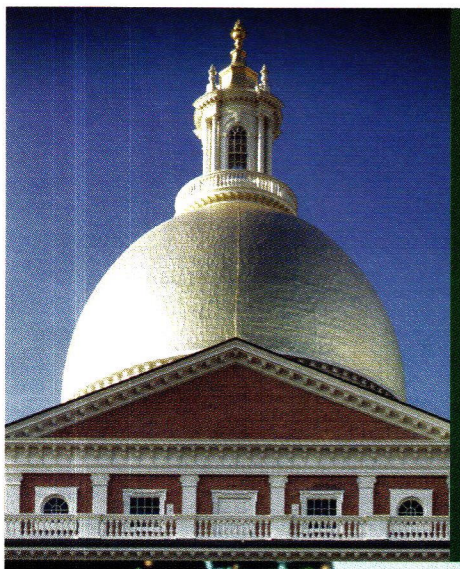

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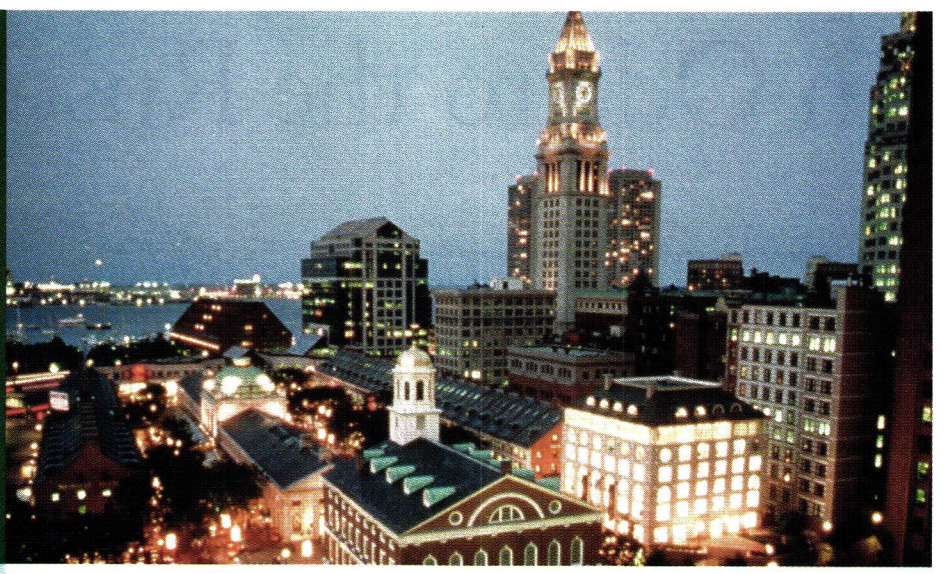

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WRITE IN NO. 3380

An Ode to the Rustic Style

Cabins & Camps
Written & photographed by Ralph Kylloe
Gibbs Smith, Salt Lake City, UT
233 pp; hardcover
$60.00; ISBN 1-58685-135-7

by Marieke Cassia Gartner

A photographic essay that extols the virtues of the rustic style, Ralph Kylloe's *Cabins & Camps* explores the mountain homes and log cabins of the United States, from New York's Adirondack State Park to Idaho's Rocky Mountains. With a degree in photography and an expertise in rustic art, Kylloe brings to this book an understanding of both his subject and how to present it.

In his "Exordium", Kylloe offers advice on questions he is frequently asked by visitors to his Adirondack gallery, including information on choosing and working with wood in the Adirondack style – "bark on". Kylloe recommends that one cuts wood in the winter, keeps raw or fresh-cut wood dry, doesn't keep furniture outside and more.

He waxes poetical and philosophical in this introduction, and it is mostly unnecessary: "Be an artist. Improve your life." However, his casual tone proves to be inviting in "The Art of Rustic", the first chapter in the book. While Kylloe offers advice on decorating and theories on why people tend to like the rustic style, helpful information can be found among these generalities, for instance, pointers as to the attributes of the rustic style: "[R]ustic furniture artists incorporate natural elements of organic materials in their forms. Little or no attempt is made to alter, disguise or disfigure the material used."

Some history is also offered as to the origins of the style. According to Kylloe, there are three general periods that define the style. The first period of American rustic furniture began in the mid-1800s and lasted until the early 1900s, and was characterized by birch bark or furniture "heavily adorned with intricate twig patterns known as mosaic". The second period, beginning in the 1930s, featured traditional western motifs and a growth in builders in the Adirondacks working in the style. The final period started in the 1980s when "significant interest in antique rustic furniture began in earnest". Kylloe ends the chapter with a Why Choose Rustic? section, followed by a brief look at each room of a house and how to furnish it: "In a rustic living room, attention to lighting and color is important," he says. "Light should be soft. Colors should blend, but not too much. Red is a good accent color to jump-start your living room."

This guest home in Montana was originally built in 1912 by a Swedish carpenter. The building was dismantled and completely reconstructed by Yellowstone Traditions. *All photos courtesy of Gibbs Smith, copyright Ralph Kylloe*

For each of the remaining chapters, Kylloe turns to specific residences, including his own, located on Lake George in the Adirondacks, to demonstrate the style. The story behind his residence, how he acquired it and how he made it into a vacation home, is entertaining and educational. It includes information on the regulations that he had to follow because of the location and a mention of the respect for the area used in the building of the house: "We were careful not to disturb the roots of the huge, 150-year-old white pine trees that surrounded the building," he says. The other residences each have a brief introduction, which include architect and designer names and location, along with what Kylloe finds unique about each choice.

Mainly a coffee-table book, *Cabins & Camps* is not only pleasurable to look through, but also a good guide to the varieties of furniture and houses across the nation that celebrate the rustic style. ◆

In order to use birch bark extensively on the exterior of this home, the architect divided the façade into a grid, thereby avoiding the size limitations of the material.

This interior is covered with Adirondack siding, and features snowshoes and colorful linens to accentuate its rustic style.

Ralph Kylloe's home in the Adirondacks features antlers at the entrance and bark-on logs for the façade. The deck railing was originally fabricated from bark-on cedar, but the squirrels stripped it clean within a few weeks.

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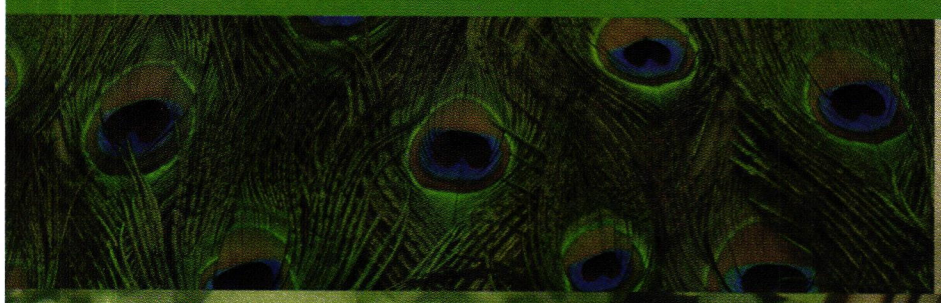

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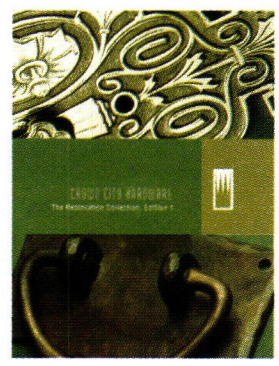

"GET LOST IN THE COLORFUL DETAILS."

WRITE IN NO. 432

A Celebration of the Adirondack Camps

Adirondack Camps: Homes Away from Home, 1850-1950
by Craig Gilborn
The Adirondack Museum/Syracuse University Press, Syracuse, NY; 2000
400 pp.; hardcover; more than 300 color and black-&-white illustrations
$49.95; ISBN: 0-8156-0626-5

by Nicole V. Gagné

Author Craig Gilborn was the director of the Adirondack Museum for 20 years, and those decades of research and on-site familiarity have been poured into this authoritative study on the Adirondack Camps. As both scholar and Adirondack resident (Gilborn has a house on Long Lake), he offers a blend of historical thoroughness and personal experience. Thanks to his long-standing connection to the Museum, his book is overflowing with historic photographs and period illustrations that bring detail, humor and immediacy to what could be, for so many readers across the country, an exercise in esoterica.

Gilborn's unique expertise in this subject also earns him the right to take on a recent and well-known development in nomenclature. He bristles at the term "Great Camp", a late-20th-century description that preservationists and the academy awarded to the rustic structures of the region. Such "self-validating" language, Gilborn argues, is "incapable of discriminating one great camp from another [...] a camp's merits are ratified before it can be analyzed." An historian who pays such meticulous attention to the actual development of camp design over a century would have to be sensitive to its evolving degrees of ambition and complexity. For those architect-designed camps that arose in the late-19th century, Gilborn proposes the term "Decorous Camp", which he defines as "an attempt to find a balance between the polarities, the primitive hut and the prodigy country house."

Gilborn's *Adirondack Camps* begins at the very beginning, with four chapters examining the huts, lean-tos, sheds, shanties and log cabins that arose prior to the Civil War. Gilborn sees these indigenous, unselfconscious structures as signifiers of "a region without boundaries, where people roamed and even settled outside towns without title and little or no opposition." By the 1870s, the growth in railroad travel and the public's desire for inexpensive land resulted in the purchase of sizable tracts of land, complete with lakes and forests, which came to be known as preserves.

The Tree bedroom at Kamp Kill Kare, with its exposed ceiling timbers, rough stonework fireplace and furniture that celebrates its native materials, is a quintessential example of high-style interior design for an Adirondack camp. Note the animal imagery in the throw pillows at the foot of the bed and the stuffed owl high in the bed's branches. *Photo: The Adirondack Museum; photographer, Richard Linke*

An 1871 law gave owners, both individuals and organized clubs, the right to post the land and forbid trespassing. In two further chapters, Gilborn explores the resulting shift in architecture and usage that followed such legislation. Although men and male groups became the predominant lease-holders in this time, a shift can be observed from men who were mostly preoccupied with hunting and fishing to women and families who were in pursuit of such non-violent activities as bicycle riding, hiking and bird watching.

The region's demographic here begins its shift to families from the city, with a resulting "dynamic that prevails to the present day, that of the Adirondack resident and camp owner who pays taxes like the resident but resides somewhere else." Gilborn devotes subsequent chapters to the early attempts to gentrify the log cabin and to the growth in architect-designed Decorous Camps. He pays special attention to Kamp Kill Kare and "its marriage of vernacular building and formal architecture, of native builders and trained architects", tracing its steady growth from a log cabin built in the mid 1880s to an impressive complex of rustic structures, which were still being expanded into the teens and early 1920s. Gilborn sees Kamp Kill Kare as notable because of "the broad canvas on which rustic detailing and stone work were expressed [...] it was visionary, not so much in the sense of looking to the future as in suggesting that designers and architects have far to go before they exhaust the possibilities of an authentic rustic art."

Adirondack Camps includes detailed appendices on the care and preservation of several of the camps, and on the projects of W.W. Durant, William Coulter and William Distin. There is also an extensive, 22-page bibliography of relevant books and periodicals, which will prove invaluable to all serious researchers of this subject. In his Preface, Gilborn requests that his readers "see the book as he did, as a beginning and a foundation for further work, and not the last word in our understanding of the Adirondack camps." ◆

With its natural-stone chimney and porch foundations and a wraparound porch sheltering hewn-log walls, Ragged Mountain Camp (located in Blue Ridge, NY) epitomizes for Gilborn "the ideal of a hunting camp, neither too refined nor too crude". *Photo: Craig Gilborn*

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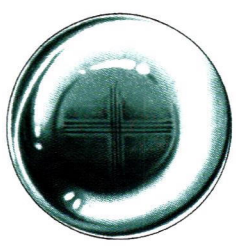

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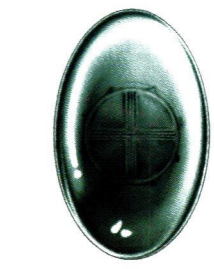

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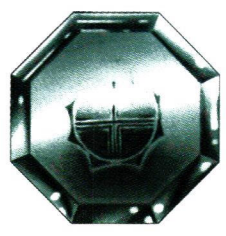

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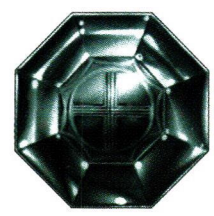

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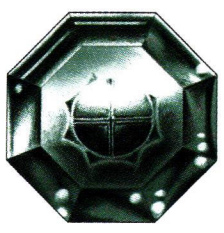

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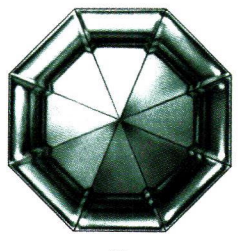

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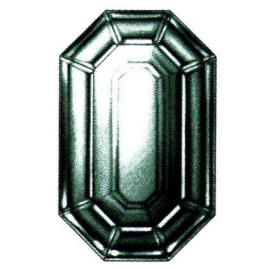

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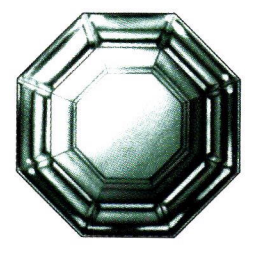

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